Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) EP 0 897 010 A2

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication: 17.02.1999 Bulletin 1999/07

(21) Application number: 98104858.0

(22) Date of filing: 18.03.1998

(51) Int. Cl.⁶: **C12N 15/55**, C12N 9/16, C12N 1/15, C12N 1/19, A23K 1/165 // (C12N1/15, C12R1:685), (C12N1/19, C12R1:865), (C12N1/19, C12R1:78)

(84) Designated Contracting States:

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 25.03.1997 EP 97810175

(71) Applicant:

F. HOFFMANN-LA ROCHE AG 4070 Basel (CH)

(72) Inventors:

Kostrewa, Dirk
 79100 Freiburg (DE)

 Pasamontes, Luis 4632 Trimbach (CH) Tomschy, Andrea 79639 Grenzach-Wyhlen (DE)

- Van Loon, Adolphus
 4310 Rheinfelden (CH)
- Vogel, Kurt 4051 Basie (CH)
- Wyss, Markus
 4410 Liestal (CH)
- (74) Representative: Braun, Axel et al F.Hoffmann-La Roche AG Patent Department (PLP), 124 Grenzacherstrasse 4070 Basel (CH)

Remarks:

The applicant has subsequently filed a sequence listing and declared, that it includes no new matter.

(54) Modified phytases

(57) The present invention is directed to a process for the production of a modified phytase with improved activity properties characterized therein that the following steps are effected:

 a) the three dimensional structure of the phytase to be modified and, optionally of another phytase with activity properties which are more favorable than the ones of the phytase to be modified is/are computer modelled on the basis of the three dimensional structure of the phytase of Aspergillus niger;

 b) the structure of the active sites of the phytase to be modified and of the phytase with the more favorable activity properties are compared and those amino acid residues in both active sites which are different are identified;

- c) a DNA sequence coding for a modified phytase is constructed by changing the nucleotides coding for at least one of the amino acids by which both active sides differ;
- d) integrating such a DNA sequence into a vector

capable of expression in a suitable host cell;

e) transforming a suitable host cell by the DNA sequence of c) or the vector of d), growing said host cell under suitable growth conditions and isolating the modified phytase from the host cell or the culture medium by methods known in the state of the art

The present invention is also directed to phytases obtainable or obtained by such a process.

Description

20

25

30

35

40

45

[0001] Phytases (*myo*-inositol hexakisphosphate phosphohydrolases; EC 3.1.3.8) are enzymes that hydrolyze phytate (*myo*-inositol hexakisphosphate) to *myo*-inositol and inorganic phosphate and are known to be valuable feed additives.

[0002] A phytase was first described in rice bran in 1907 [Suzuki et al., Bull. Coll. Agr. Tokio Imp. Univ. 7, 495 (1907)] and phytases from Aspergillus species in 1911 [Dox and Golden, J. Biol. Chem. 10, 183-186 (1911)]. Phytases have also been found in wheat bran, plant seeds, animal intestines and in microorganisms [Howsen and Davis, Enzyme Microb. Technol. 5, 377-382 (1983), Lambrechts et al., Biotech. Lett. 14, 61-66 (1992), Shieh and Ware, Appl. Microbiol. 16, 1348-1351 (1968)].

[0003] The cloning and expression of the phytase from Aspergillus niger (ficuum) has been described by Van Hartingsveldt et al., in Gene, 127, 87-94 (1993) and in European Patent Application, Publication No. (EP) 420 358 and from Aspergillus niger var. awamori by Piddington et al., in Gene 133, 55-62 (1993).

[0004] Cloning, expression and purification of phytases with improved properties have been disclosed in EP 684 313. However, since there is a still ongoing need for further improved phytases, especially with respect to the activity properties, it is an object of the present invention to provide the following:

- i) A process for the production of a modified phytase with improved activity properties characterized therein that the following steps are effected:
 - a) the three dimensional structure of the phytase to be modified and, optionally of another phytase with activity
 properties which are more favorable than the ones of the phytase to be modified is/are computer modelled on
 the basis of the three dimensional structure of the phytase of Aspergillus niger (ficuum);
 - b) the structure of the active sites of the phytase to be modified and of the phytase with the more favorable activity properties are compared and those amino acid residues in both active sites which are different are identified:
 - c) a DNA sequence coding for a modified phytase is constructed by changing the nucleotides coding for at least one of the amino acids by which both active sites differ;
 - d) integrating such a DNA sequence into a vector capable of expression in a suitable host cell;
 - e) transforming a suitable host cell by the DNA sequence of c) or the vector of d), growing said host cell under suitable growth conditions and isolating the modified phytase from the host cell or the culture medium by methods known in the state of the art; or
- ii) a process as described under i) wherein the phytase to be modified is of eukaryotic, preferably fungal, more preferably Aspergillus, e.g. Aspergillus fumigatus origin; or
- iii) a process as described under i) or ii) wherein the phytase with more favorable activity properties is of eukaryotic, preferably fungal, more preferably Aspergillus, e.g. Aspergillus niger or Aspergillus terreus (Aspergillus terreus cos 116.46 or 9A1) origin; or
- iv) a process as described under i), ii) or iii) wherein the phytase to be modified is a phytase of Aspergillus fumigatus and the phytase with the more favorable activity properties is the Aspergillus terreus phytase or the phytase of Aspergillus niger.
- [0005] In this context it should be mentioned that another possibility of producing phytases with improved properties is by isolating phytases from the same organism, like for example the Aspergillus ficuum, but different strains which can be found in nature and have been deposited by any of the known depository authorities. Their amino acid sequences can be determined by cloning their corresponding DNA sequences by methods as described, e.g. in European Patent Application No. (EP) 684 313. Once such sequences have been defined they can be modeled on the basis of the three-dimensional structure of the A. niger phytase and the active sites of both sequences can be compared to find out whether such phytase should have improved activity properties (see Example 8) or both active site sequences can be compared directly and than tested for increased and/or improved activity by the assays described in the present application.
 - [0006] It is furthermore an object of the present invention to provide a modified phytase which is obtainable by a proc-

ess as described above.

[0007] It is in general an object of the present invention to provide a phytase which has been modified in a way that its activity property is more favorable than the one of the non-modified phytase, specifically such a phytase characterized therein that the amino acid sequence of the non-modified phytase has been changed by deletion, substitution and/or addition of one or more amino acids, more specifically such a phytase wherein changes have been made at at least one position which is homologous to one of the following positions of the amino acid sequence of the phytase of Aspergillus (A.) niger (see Fig.1): 27, 66, 71, 103, 140, 141, 188, 205, 234, 235, 238, 274, 277, 282, 340 and/or 424, preferably 27, 66, 140, 205, 274, 277, 282 and/or 340, and even more specifically such a phytase which is the phytase of eukaryotic, preferably fungal, more preferably Aspergillus and most preferably Aspergillus fumigatus, origin.

[0008] It is furthermore an object of the present invention to provide such a phytase wherein at position 27 or at least at position 27 a change occurs, preferably a phytase wherein the amino acid at position 27 is replaced by one selected from one of the following groups:

- a) Ala, Val, Leu, Ile; or
- b) Thr or

15

c) Asn; and furthermore such a phytase wherein in addition to position 27 a change occurs also at position 66 or wherein in addition to position 27 a change occurs also at position 140 and/or at positions 274 and/or 277.

[0009] It is also an object of the present invention to provide a phytase as specified above which is characterized by at least one of the following mutations: Q27L, Q27N, Q27T, Q27I, Q27V, Q27A, Q27G, S66D, S140Y, D141G, A205E, Q274L, G277D, G277K Y282H and/or N340S.

[0010] It is furthermore an object of the present invention to provide phytase muteins which are resistant against degradation by proteases of fungal, preferably Aspergillus and most preferably Aspergillus niger (ficuum) origin. Such muteins are characterized therein that at least at one of the following positions (which refers to the homologous position in the amino acid sequence of A. niger), namely position 130 or 129 and 130, preferably of the Aspergillus fumigatus or 167, 168 preferably of the A. nidulans phytase amino acid sequence, the amino acid which is present in the wild type sequence has been replaced against another amino acid which is known to change the protease sensitivity, e.g. in the case of A. fumigatus at position 130 from "S" to "N" and at position 129 from "R" to "L" and in case of A. nidulans at position 167 from "K" to "G" and at position 168 from R to Q. Such positions can be also combined with those providing for improved activity properties.

[0011] In this context "improved activity property" means any type of improvement of the activity of the mutated phytase as compared to the non mutated. This could mean for example a higher specific activity, preferably at least two fold or more preferably at least 3 to 4 fold higher in an assay known in the state of the art to measure phytase activity, see e.g. in EP 684 313 or described in the examples of the present application. Furthermore this could mean a different substrate specificity determined in an assay known in the state of the art or as described e.g. in the specific examples of the present invention. This could also mean a maximum of the specific activity at a different more favorable pH or a broad pH optimum ("improved pH profile") determined by an assay as known in the state of the art or as described e.g. in the examples. Finally this could also mean any combination of such properties.

[0012] "Homologous" in the context of the present invention means the best fit of the primary, preferably also secondary and most preferably also tertiary structure of the phytase to be modified and the phytase of Aspergillus niger. How such best fit can be obtained is described in detail in Example 1 of the present invention. Figure 1 gives an example of such best fit for the phytase amino acid sequences of Aspergillus fumigatus and Aspergillus terreus aligned on the basis of the Aspergillus niger amino acid sequence which latter sequence is also used as the reference to which the positions of the other sequences, e.g. the ones named before, are referred to. Furthermore the modified Aspergillus fumigatus phytase with the Q27L mutation, means nothing else than the phytase of Aspergillus fumigatus wherein at position 27 according to the assignment as defined above (which is in fact position 23 of the Aspergillus fumigatus amino acid sequence) the naturally occurring glutamine ("Q" refers to the standard UPAC one letter amino acid code) has been replaced by leucine ("L"). All muteins of the present invention are designated in this way independent from wether they are protease resistant muteins or muteins with improved activity properties.

[0013] It is furthermore an object of the present invention to provide a DNA-sequence comprising a DNA sequence coding for a phytase as described above, a vector, preferably an expression vector, comprising such a DNA sequence, a host cell which has been transformed by such a DNA sequence or vector, a process for the preparation of a phytase of the present invention wherein the host cell as described before is cultured under suitable culture conditions and the phytase is isolated from such host cell or the culture medium by methods known in the art, and a food or feed composition comprising a phytase of the present invention.

[0014] In this context it should be noted that it is also an object of the present invention to provide a DNA sequence which codes for a phytase carrying at least one of the specific mutations of the present invention and which hybridizes under standard conditions with the DNA sequences of the specific modified phytas is of the present invention or a DNA

sequence which, becaus of the degeneracy of the genetic code does not hybridize but which codes for a polypeptide with exactly the same amino acid sequence as the one encoded by the DNA sequence to which it does not hybridize or a DNA sequence which is a fragment of such DNA sequences which maintains the activity properties of the polypeptide of which it is a fragment.

- [0015] "Standard conditions" for hybridization mean in the context the conditions which are generally used by a man skilled in the art to detect specific hybridization signals and which are described, e.g. by Sambrook et al., "Molecular Cloning", second edition, Cold Spring Harbor Laboratory Press 1989, New York, or preferably so called stringent hybridization and non-stringent washing conditions or more preferably so called stringent hybridization and stringent washing conditions a man skilled in the art is familiar with and which are described, e.g. in Sambrook et al. (s.a.).
- [0016] It is furthermore an object of the present invention to provide a DNA sequence which can be obtained by the so called polymerase chain reaction method ("PCR") by PCR primers designed on the basis of the specifically described DNA sequences of the present invention. It is understood that the so obtained DNA sequences code for phytases with at least the same mutation as the ones from which they are designed and show comparable activity properties.
- 15 [0017] The principles of the polymerase chain reaction (PCR) method are outlined e.g. by White et al., Trends in Genetics, 5, 185-189 (1989), whereas improved methods are described e.g. in Innis et al. [PCR Protocols: A guide to Methods and Applications, Academic Press, Inc. (1990)].
- [0018] DNA sequences of the present invention can be constructed starting from genomic or cDNA sequences coding for phytases known in the state of the art [for sequence information see references mentioned above, e.g. EP 684 313 or sequence data bases, for example like Genbank (Intelligenetics, California, USA), European Bioinformatics Institute (Hinston Hall, Cambridge, GB), NBRF (Georgetown University, Medical Centre, Washington DC, USA) and Vecbase (University of Wisconsin, Biotechnology Centre, Madison, Wisconsin, USA) or disclosed in the figures by methods of in vitro mutagenesis [see e.g. Sambrook et al., Molecular Cloning, Cold Spring Harbor Laboratory Press, New York]. A widely used strategy for such "site directed mutagenesis", as originally outlined by Hurchinson and Edgell [J. Virol. 8, 181 (1971)], involves the annealing of a synthetic oligonucleotide carrying the desired nucleotide substitution to a target region of a single-stranded DNA sequence wherein the mutation should be introduced [for review see Smith, Annu. Rev. Genet. 19, 423 (1985) and for improved methods see references 2-6 in Stanssen et al., Nucl. Acid Res., 17, 4441-4454
- (1989)]. Another possibility of mutating a given DNA sequence which is also preferred for the practice of the present invention is the mutagenesis by using the polymerase chain reaction (PCR). DNA as starting material can be isolated by methods known in the art and described e.g. in Sambrook et al. (Molecular Cloning) from the respective strains. For strain information see, e.g. EP 684 313 or any depository authority indicated below. Aspergillus niger [ATCC 9142], Myceliophthora thermophila [ATCC 48102], Talaromyces thermophilus [ATCC 20186] and Aspergillus fumigatus [ATCC 34625] have been redeposited on March 14, 1997 according to the conditions of the Budapest Treaty at the American Type Culture Cell Collection under the following accession numbers: ATCC 74337, ATCC 74340, ATCC 74338 and
- 35 ATCC 74339, respectively. It is however, understood that DNA encoding a phytase to be mutated in accordance with the present invention can also be prepared on the basis of a known DNA sequence, e.g. as shown in Fig. 6 in a synthetic manner and described e.g. in EP 747 483 by methods known in the art.
- [0019] Once complete DNA sequences of the present invention have been obtained they can be integrated into vectors by methods known in the art and described e.g. in Sambrook et al. (s.a.) to overexpress the encoded polypeptide in appropriate host systems. However, a man skilled in the art knows that also the DNA sequences themselves can be used to transform the suitable host systems of the invention to get overexpression of the encoded polypeptide. Appropriate host systems are for example fungi, like Aspergilli, e.g. Aspergillus niger [ATCC 9142] or Aspergillus ficuum [NRRL 3135] or like Trichoderma, e.g. Trichoderma reesei or yeasts, like Saccharomyces, e.g. Saccharomyces cerevisiae or Pichia, like Pichia pastoris, or Hansenula polymorpha, e.g. H. polymorpha (DSM5215). A man skilled in the art knows that such microorganisms are available from depository authorities, e.g. the American Type Culture Collection (ATCC), the Centraalbureau voor Schimmelcultures (CBS) or the Deutsche Sammlung für Mikroorganismen und Zellkulturen GmbH (DSM) or any other depository authority as listed in the Journal "Industrial Property" [(1991) 1, pages
- 29-40]. Bacteria which can be used are e.g. E. coli, Bacilli as, e.g. Bacillus subtilis or Streptomyces, e.g. Streptomyces lividans (see e.g. Anné and Mallaert in FEMS Microbiol. Letters 114, 121 (1993). E. coli, which could be used are E. coli K12 strains e.g. M15 [described as DZ 291 by Villarejo et al. in J. Bacteriol. 120, 466-474 (1974)], HB 101 [ATCC No. 33694] or E. coli SG13009 [Gottesman et al., J. Bacteriol. 148, 265-273 (1981)].
 - [0020] Vectors which can be used for expression in fungi are known in the art and described e.g. in EP 420 358, or by Cullen et al. [Bio/Technology 5, 369-376 (1987)] or Ward in Molecular Industrial Mycology, Systems and Applications for Filamentous Fungi, Marcel Dekker, New York (1991), Upshall et al. [Bio/Technology 5, 1301-1304 (1987)] Gwynne et al. [Bio/Technology 5, 71-79 (1987)], Punt et al. [J. Biotechnol. 17, 19-34 (1991)] and for yeast by Sreekrishna et al. [J. Basic Microbiol. 28, 265-278 (1988), Biochemistry 28, 4117-4125 (1989)], Hitzemann et al. [Nature 293, 717-722 (1981)] or in EP 183 070, EP 183 071, EP 248 227, EP 263 311. Suitable vectors which can be used for expression in E. coli are mentioned, e.g. by Sambrook et al. [s.a.] or by Fi rs et al. in Procd. 8th Int. Biotechnology Symposium" [Soc.

Franc. de Microbiol., Paris (Durand et al., eds.), pp. 680-697 (1988)] or by Bujard et al. in Methods in Enzymology, eds. Wu and Grossmann, Academic Press, Inc. Vol. 155, 416-433 (1987) and Stüber et al. in Immunological Methods, eds. Lefkovits and Pernis, Academic Press, Inc., Vol. IV, 121-152 (1990). Vectors which could be used for expression in Bacilli are known in the art and described, e.g. in EP 405 370, Procd. Natl. Acad. Sci. USA 81, 439 (1984) by Yansura and Henner, Meth. Enzymol. 185, 199-228 (1990) or EP 207 459. Vectors which can be used for the expression in H. Polymorpha are known in the art and described, e.g. in Gellissen et al., Biotechnology 9, 291-295 (1991).

[0021] Either such vectors already carry regulatory elements, e.g. promotors, or the DNA sequences of the present invention can be engineered to contain such elements. Suitable promotor elements which can be used are known in the art and are, e.g. for Trichoderma reesei the cbh1- [Haarki et al., Biotechnology 7, 596-600 (1989)] or the pki1-promotor [Schindler et al., Gene 130, 271-275 (1993)], for Aspergillus oryzae the amy-promotor [Christensen et al., Abstr. 19th Lunteren Lectures on Molecular Genetics F23 (1987), Christensen et al., Biotechnology 6, 1419-1422 (1988), Tada et al., Mol. Gen. Genet. 229, 301 (1991)], for Aspergillus niger the glaA- [Cullen et al., Bio/Technology 5, 369-376 (1987), Gwynne et al., Bio/Technology 5, 713-719 (1987), Ward in Molecular Industrial Mycology, Systems and Applications for Filamentous Fungi, Marcel Dekker, New York, 83-106 (1991)], alcA- [Gwynne et al., Bio/Technology 5, 718-719 (1987)], suc1- [Boddy et al., Curr. Genet. 24, 60-66 (1993)], aphA- [MacRae et al., Gene 71, 339-348 (1988), MacRae et al., Gene 132, 193-198 (1993)], tpiA- [McKnight et al., Cell 46, 143-147 (1986), Upshall et al., Bio/Technology 5, 1301-1304 (1987)], gpdA- [Punt et al., Gene 69, 49-57 (1988), Punt et al., J. Biotechnol. 17, 19-37 (1991)] and the pkiA-promotor [de Graaff et al., Curr. Genet. 22, 21-27 (1992)]. Suitable promotor elements which could be used for expression in yeast are known in the art and are, e.g. the pho5-promotor [Vogel et al., Mol. Cell. Biol., 2050-2057 (1989); Rudolf and Hinnen, Proc. Natl. Acad. Sci. 84, 1340-1344 (1987)] or the gap-promotor for expression in Saccharomyces cerevisiae and for Pichia pastoris, e.g. the aox1-promotor [Koutz et al., Yeast 5, 167-177 (1989); Sreekrishna et al., J. Basic Microbiol. 28, 265-278 (1988)], or the FMD promoter [Hollenberg et al., EPA No. 0299108] or MOX-promotor [Ledeboer et al., Nucleic Acids Res. 13, 3063-3082 (1985)] for H. polymorpha.

[0022] Accordingly vectors comprising DNA sequences of the present invention, preferably for the expression of said DNA sequences in bacteria or a fungal or a yeast host and such transformed bacteria or fungal or yeast hosts are also an object of the present invention.

[0023] Once such DNA sequences have been expressed in an appropriate host cell in a suitable medium the encoded phytase can be isolated either from the medium in the case the phytase is secreted into the medium or from the host organism in case such phytase is present intracellularly by methods known in the art of protein purification or described, e.g. in EP 420 358. Accordingly a process for the preparation of a polypeptide of the present invention characterized in that transformed bacteria or a host cell as described above is cultured under suitable culture conditions and the polypeptide is recovered therefrom and a polypeptide when produced by such a process or a polypeptide encoded by a DNA sequence of the present invention are also an object of the present invention.

[0024] Phytases of the present invention can be also expressed in plants according to methods as described, e.g. by Pen et al. in Bio/Technology 11, 811-814 (1994) or in EP 449 375, preferably in seeds as described, e.g. in EP 449 376. [0025] For example, a DNA sequence encoding a phytase of the present invention can be placed under the control of regulatory sequences from the gene encoding the 12S storage protein cruciferin from Brassica napus. The construct is thereafter subcloned into a binary vector such as pMOG23 (in E. coli K-12 strain DH5a, deposited at the Centraal Bureau voor Schimmelcultures, Baarn, The Netherlands under accession number CBS 102.90). This vector is introduced into Agrobacterium tumefaciens which contains a disarmed Ti plasmid. Bacterial cells containing this contruct are co-cultivated with tissues from tobacco or Brassica plants, and transformed plant cells are selected by nutrient media containing antibiotics and induced to regenerate into differentiated plants on such media. The resulting plants will produce seeds that contain and express the DNA contruct. Or the phytase-encoding DNA sequence can be placed under the control of regulatory sequences from the 35S promoter of Cauliflower Mosaic Virus (CaMV). The contruct is thereafter subcloned into a binary vector. This vector is then introduced into Agrobacterium tumefaciens which contains a disarmed Ti plasmid. Bacterial cells containing this construct are cocultivated with tissues from tobacco or Brassica plants, and transformed plant cells are selected by nutrient media containing antibiotics and induced to regenerate into differentiated plants on such media. The resulting plants contain and express the DNA construct constitutively.

[0026] The plant or plant part containing phytase can be used directly for the preparation of a feed composition or can be extracted from plants or plant organs by methods known in the art. Accordingly it is also an object of the present invention to provide a process for the production of the phytases of the present invention in plants or plant organs, like seeds, the phytases when produced by such methods, the transformed plants and plant organs, like seeds itself.

[0027] Once obtained the polypeptides of the present invention can be characterized regarding their properties which

make them useful in agriculture any assay known in the art and described e.g. by Simons et al. [Br. J. Nutr. <u>64</u>, 525-540 (1990)], Schöner et al. [J. Anim. Physiol. a. Anim. Nutr. <u>66</u>, 248-255 (1991)], Vogt [Arch. Geflügelk. <u>56</u>, 93-98 (1992)], Jongbloed et al. [J. Anim. Sci., <u>70</u>, 1159-1168 (1992)], Perney et al. [Poultry Sci. <u>72</u>, 2106-2114 (1993)], Farrell et al., [J. Anim. Physiol. a. Anim. Nutr. <u>69</u>, 278-283 (1993), Broz et al., [Br. Poultry Sci. <u>35</u>, 273-280 (1994)] and Düngelhoef et al. [Animal Feed Sci. Technol. <u>49</u>, 1-10 (1994)] can be used.

[0028] In general the polypeptides of the present invention can be used without being limited to a specific field of application for the conversion of inositol polyphosphates, like phytate to inositol and inorganic phosphate.

[0029] Furthermor the polypeptides of the present invintion can be used in a process for the preparation of compound food or feeds wherein the components of such a composition are mixed with one or more polypeptides of the present invention. Accordingly compound food or feeds comprising one or more polypeptides of the present invention are also an object of the present invention. A man skilled in the art is familiar with their process of preparation. Such compound foods or feeds can further comprise additives or components generally used for such purpose and known in the state of the art.

[0030] It is furthermore an object of the present invention to provide a process for the reduction of levels of phytate in animal manure characterized in that an animal is fed such a feed composition in an amount effective in converting phytate contained in the feedstuff to inositol and inorganic phosphate.

[0031] Before describing the present invention in more detail a short explanation of the enclosed Figures is given below.

15 Figure Legends

[0032]

Figure 3:

25

30

50

55

Figure 11a:

Figure 1: Primary sequence alignment of A. niger (ficuum), A. terreus cbs116.46 and A. fumigatus [ATCC 13073]
phytase. Stars show identical residues within the active site and rectangles, non-identical residues within the active site.

Figure 2: pH optima curves. Specific activity of wild-type and mutant A. fumigatus phytases is plotted against pH of incubation. Filled squares represent A. fumigatus wild-type phytase; Open triangles represent A. fumigatus Q27L mutant; Filled circles represent A. fumigatus Q27L, Q274L mutant; Open squares represent A. fumigatus Q27L, Q274L, Q274L, G277D mutant.

Substrate specificities of wild-type and mutant *A. fumigatus* phytases. (A) wild-type; (B) Q27L single mutant; (C) Q27L, Q274L, G277D triple mutant. The following substrates were used: (1) phytic acid; (2) p-nitrophenyl phosphate; (3) fructose-1,6-bisphosphate; (4) fructose-6-phosphate; (5) glucose-6-phosphate; (6) ribose-5-phosphate; (7) α-glycerophosphate; (8) β-glycerophosphate; (9) 3-phosphoglycerate; (10) phosphoenolpyruvate; (11) AMP; (12) ADP; (13) ATP.

Figure 4: Complete coding sequence and encoded amino acid sequence of the Aspergillus nidulans phytase.

Figure 5: Complete coding sequence and encoded amino acid sequence of Talaromyces thermophilus phytase.

Figure 6: Complete coding sequence and encoded amino acid sequence of Aspergillus fumigatus [ATCC 13073]

Figure 7: Complete coding sequence and encoded amino acid sequence of Aspergillus terreus CBS 116.46 phytase.

Figure 8: Crystallographic data of the structure of the Aspergillus niger phytase.

Figure 9: Substrate specificities of wild-type and mutant A. furnigatus phytase (N1-N6). Substrates 1 to 13 are as indicated for Figure 3.

Figure 10: pH optima curves of further mutant A. furnigatus phytases (N1-N6). All activity values were standardized (maximum activity = 1.0).

Stereo picture of the three-dimensional fold of A. niger (A. ficuum; NRRL 3135) phytase. The active site is indicated with a circle and the catalytically essential amino acid residues Arg 58 and His 59 are shown in ball-and-stick representation. This figure was prepared with the programs "MOLSCRIPT" [Kraulis, P.J., J. Appl. Cryst. 24, 946-950 (1991)] and "RASTER3D" [Merritt, E.A. & Murphy, M.E.P., Acta Cryst., 869-873 (1994)].

Figure 11b: Topological sketch, using the same scheme as in (a). The five disulphide bridges are shown as black

zigzag lines together with the sequence numbers of the cysteine residues involved. The β -strands are defined with the sequence numbers A: 48-58, B: 134-138, C: 173-177, D: 332-337, E: 383-391, and F: 398-403. The α -helices are defined with the sequence numbers a: 66-82, b: 88-95, c: 107-123, d: 141-159, e: 193-197, f: 200-210, g: 213-223, h: 231-246, i: 257-261, j: 264-281, k: 290-305, l: 339-348, m: 423-429, and n: 439-443. The asterisk at the C-terminal end of β -strand A marks the location of the catalytically essential amino acid residues Arg 58 and His 59.

Figure 12:

Stereo picture of the active site of A. ficuum (ATCC 13073) phytase with a hypothetical binding mode of the substrate phytate. In this model, the bound crystal water molecules were removed and the protein atom positions were held fixed, except for small adaptations of the side chain torsion angles of Lys 68 in order to interact with the substrate. All the conserved amino acid residues Arg 58, His 59, Arg 62, Arg 142, His 338 and Asp 339 form hydrogen bonds to the scissile 3-phosphate group of phytate, as indicated with lines of small dots. His 59 is in a favorable position to make a nucleophilic attack at the scissile phosphorous, indicated with a line of larger dots, and Asp 339 is in a position to protonate the leaving group.

15

25

10

Figure 13: Construction of the basic plasmids pUC18-AfumgDNA and pUC18-AfumcDNA for site directed mutagenesis.

20 Figure 14a:

Primer sets A-N used for site directed mutagenesis.

Figure 14b:

Primer sets O-T used for site directed mutagenesis.

Figure 15:

Construction of plasmids pgDNAT1-pgDNAT7.

Figure 16:

Construction of plasmids pgDNAN1-pgDNAN6.

Figure 17a:

Construction of plasmids pcT1 - pcT7.

6 Figure 17b:

Construction of plasmids pcT1-AvrII, pcT1-S66D and pcT1-S140Y-D141G

Figure 17c:

Figure 19:

Construction of plasmids pcDNA-N27, -T27, -I27, -V27, -A27, -G27.

Figure 18:

Construction of plasmids pcN1- pcN6.

Plasmid pAfum-T1 for the expression of mutein T1 in Aspergillus niger.

Figure 20:

40

pH optima curves. Specific activity of wild-type and mutant *A. fumigatus* phytases is plotted against pH of incubation. Open triangles: *A. fumigatus* [ATCC 13073] wild-type phytase; Open rhombs: *A. fumigatus* Q27G phytase; Filled squares: *A. fumigatus* Q27N phytase; Filled triangles: *A. fumigatus* Q27V phytase; Open squares: *A. fumigatus* Q27A phytase; Filled circles: *A. fumigatus* Q27I phytase; Open circles: *A. fumigatus* Q27T phytase; Dashed line: *A. fumigatus* Q27L phytase.

Figure 21:

Substrate specificities of wild-type and mutant *A. fumigatus* [ATCC 13073] phytases. The used substrates 1-13 are the same as mentioned in Figure 3. The specific activities of the different phytases with any one of the 13 substrates tested are given in the following order (from left to right): *A. fumigatus* wild-type phytase, *A. fumigatus* Q27N phytase, *A. fumigatus* Q27T phytase, *A. fumigatus* Q27L phytase, *A. fumigatus* Q27I phytase, *A. fumigatus* Q27D phytase, *A. fumigatus* Q27G phytase.

50

Figure 22:

Figure 23:

pH optima curves. Specific activity of wild-type and mutant *A. fumigatus* [ATCC 13073] phytases is plotted against pH of incubation. Filled rhombs: *A. fumigatus* wild-type phytase; Filled squares: *A. fumigatus* Q27L single mutant; Open circles: *A. fumigatus* Q27L-S66D double mutant; Filled triangles: *A. fumigatus* Q27L-S140Y-D141G triple mutant.

55

Natural variation of phytases in different isolates of *A. fumigatus* [ATCC 13073]. The predicted protein sequences are shown and compared to that of the phytase from *A. fumigatus* strain ATCC 13073. Only the amin acids which differ fr m those in #13073 are shown.

Figure 24: pH dependent specific activity of phytases isolated from two different A. fumigatus wildtype strains. Open squares: wild-type strain ATCC 13073; Filled circles: strain ATCC 32239.

Substrate specificities of phytases isolated from two different A. fumigatus wildtype strains. Black bars: Firgure 25: wild-type strain ATCC 13073; White bars: strain ATCC 32239.

Firgure 26: Construction of plasmids pc-S130N, pc-R129L-S130N, pc-K167G-R168Q.

Examples

Example 1

Homology Modeling of A. fumigatus and A. terreus cos116.46 phytase

[0033] The amino acid sequences of A. fumigatus [ATCC 13073] (see Figure 1) and A. terreus cbs116.46 phytase (see Figure 1) were compared with the sequence of A. niger (ficuum) phytase (see Figure 1) for which the three-dimensional structure had been determined by X-ray crystallography. Crystallographic data are given in Figure 8. [0034] A multiple amino acid sequence alignment of A. niger (ficuum) phytase, A. fumigatus phytase and A. terreus cbs116.46 phytase was calculated with the program "PILEUP" (Prog. Menu for the Wisconsin Package, version 8, September 1994, Genetics Computer Group, 575 Science Drive, Madison Wisconcin, USA 53711). The three-dimensional models of A. fumigatus phytase and A. terreus cbs116.46 phytase were built by using the structure of A. niger (ficuum) phytase as template and exchanging the amino acids of A. niger (ficuum) phytase according to the sequence alignment to amino acids of A. fumigatus and A. terreus cbs116.46 phytases, respectively. Model construction and energy optimization were performed by using the program Moloc (Gerber and Müller, 1995). C-alpha positions were kept fixed except

25 for new insertions/deletions and in loop regions distant from the active site. [0035] Only small differences of the modelled structures to the original crystal structure could be observed in external loops. Furthermore the different substrate molecules that mainly occur on the degradation pathway of phytic acid (myoinositol-hexakisphosphate) by Pseudomonas sp. bacterium phytase and, as far as determined, by A. niger (ficuum) phytase (Cosgrove, 1980; Fig. 1) were constructed and forged into the active site cavity of each phytase structure. Each of these substrates was oriented in a hypothetical binding mode proposed for histidine acid phosphatases (Van Etten, 1982). The scissile phosphate group was oriented towards the catalytically essential His 59 to form the covalent phosphoenzyme intermediate. The oxygen of the substrate phosphoester bond which will be protonated by Asp 339 after cleavage was orientated towards the proton donor. Conformational relaxation of the remaining structural part of the substrates as well as the surrounding active site residues was performed by energy optimization with the program

100361 Based on the structure models the residues pointing into the active site cavity were identified. More than half (60%) of these positions were identical between these three phytases, whereas only few positions were not conserved (see Figure 1). This observation could be extended to four additional phytase sequences (A. nidulans, A. terreus 9A1, Talaromyces thermophilus, Myceliophthora thermophila).

[0037] The results coming from sequence alignment and structural information including favourable enzyme-substrate interactions were combined to define the positions for mutational analysis which are shown in Table 1.

References:

Moloc.

[0038]

50

Gerber, P. and Müller, K. (1995) Moloc molecular modeling software. J. Comput. Aided Mol. Des. 9, 251-268

Van Etten, R.L. (1982) Human prostatic acid phosphatase: a histidine phosphatase. Ann. NY Acad. Sci. 390,27-50

Cosgrove, D.J. (1980) Inositol phosphates - their chemistry, biochemistry and physiology: studies in organic chemistry, chapter 4. Elsevier Scientific Publishing Company, Amsterdam, Oxford, New York.

Example 2

Construction of plasmids pUC18-AfumgDNA and pUC18-AfumcDNA

[0039] Plasmids pUC18-AfumgDNA and pUC18-AfumcDNA, the basic constructs for all the A. fumigatus muteins

described below were constructed as follows.

[0040] pUC18-AfumgDNA: The genomic DNA sequence of the phytase gene of Aspergillus fumigatus was obtained by PCR using the "Expand™ High Fidelity PCR Kit" (Boehringer Mannheim, Mannheim, Germany) with primers #39 and #40 (designed on the basis of the genomic sequence shown in Figure 6) and genomic DNA of Aspergillus fumigatus [ATCC 13073] from the A. fumigatus (NIH stock 5233) genomic library in a Lambda FixII vector [Stratagene, Lugolla, CA 92037, USA; catalog No. 946055].

Primer #39:

10

15

20

35

40

45

50

55

BspHI
5' TAT ATC ATG ATT ACT CTG ACT TTC CTG CTT TCG 3'

M I T L T F L L S

Primer #40:

3' CCT CTC ACG AAA TCA ACT CTA TAG ATA TAT 5'
G E C F S *

[0041] The reaction mix included 10 pmol of each primer and 200 ng of template DNA. 35 rounds of amplification were done with the following cycling values: 95 °C, 1 min/56 °C, 1 min/72 °C, 90 sec. The PCR-amplified Aspergillus fumigatus mutein genes had a new BspHl site at the ATG start codon, introduced with primer #39, which resulted in the change of the second amino acid from a valine to an isoleucine. Furthermore, an EcoRV site was created with primer #40 downstream of the TGA termination codon of the gene.

[0042] The PCR fragment (approx. 1450 bp) was subsequently cloned into the Smal site of pUC18 using the "sure clone Kit" (Boehringer Mannheim s.a.) according to the supplier's recommendations. The resulting plasmid was named pUC18-AfumgDNA.

[0043] pUC18-AfumcDNA: This plasmid lacks the intron (small gap letters in Figure 6) of the A. fumigatus phytase gene and was constructed as outlined in Figure 13. Briefly, using primers Fum28 and Fum11 the 5' end of exon 2 was amplified by PCR (see below), digested with Ncol and Eagl (new restriction site introduced with primer Fum28) and ligated together with the linker coding for exon 1 made of primers Fum26 and Fum27 into the Xbal and Ncol sites of pUC18-AfumgDNA, thereby resulting in plasmid pUC18-AfumcDNA.

Fum28:

5' ATATAT<u>CGGCCG</u>AGTGTCTGCGGCACCTAGT 3' EagI

Fum11:

5' TGAGGTCATCCGCACCCAGAG 3'

Fum26:

5' CTAGAATTCATGGTGACTCTGACTTTCCTGCTTTCGGCGGCGTATCT GCTTTCC:3'

Fum27:

20

10

5' GGCCGGAAAGCAGATACGCCGCCGAAAGCAGGAAAGTCAGAGTCACATGAATT 3'

PCR reaction to get 5' end of exon 2 of the A. fumigatus phytase:

2 μl template: pUC18-AfumgDNA (20 ng)
 1 μl dNTP's-mix (Boehringer Mannheim s.a.)

10 5 μl 10x Buffer

1 μl Taq polymerase (Boehringer Mannheim s.a.)

1.9 μl Fum11 (=10 pmol) 2 μl Fum28 (=10 pmol)

37,1 µl H₂O

35

[0044] In total 35 cycles with the temperature profile: 95°C for 30 sec/56°C for 30 sec/ 72°C for 45 sec were made. The amplified fragment (approx. 330 bp) was extracted once with an equal volume of phenol/chloroform (1:1). To the recovered aqueous phase 0.1 volume of 3 M sodium acetate, pH 4.8 and 2.5 volumes of ethanol were added. The mixture was centrifuged for 10 min at 12000 g and the pellet resuspended in 20 µl of H₂O. Subsequently, the purified fragment was digested with Ncol and Eagl and processed as outlined above.

Example 3

Construction of muteins of the phytase of Aspergillus furnigatus for expression in A. niger

[0045] To construct all muteins for the expression in A. niger, plasmid pUC18-AfumgDNA was used as template for site-directed mutagenesis. Mutations were introduced using the "quick exchange™ site-directed mutagenesis kit" from Stratagene (La Jolla, CA, USA) following the manufacturer's protocol and using the corresponding primers (Figure 14). All mutations made are summarized in Table 1A and B wherein T1 to T7 and N1 to N6, respectively, refer to the muteins and "Mutation" to the amino acids replaced at such position. For example T5 refers to a mutein with a double mutation: L at position 27 for Q and L at position 274 for Q. The primer sets (A-H) used to introduce the corresponding mutations are shown in Figure 14a. The newly introduced amino acid is shown in bold and the subscript indicates the position in the mature Aspergillus fumigatus enzyme concerning to the numbering of the A. niger amino acid sequence. Figures 15 and 16 outline the scheme for the construction of different plasmids pgT1-pgT7 and pgN1-pgN6 encoding the muteins carrying only one mutation (T1-T4; N1-N3) or more mutations (T5-T7; N4-N6). Clones harboring the desired mutations were identified by DNA sequence analysis as known in the art. The mutated phytases were verified by complete sequencing of the genes.

Example 4

Construction of muteins of the phytase of Aspergillus furnigatus for expression in Saccharomyces cerevisia

- [0046] Construction of plasmids pcT1 pcT7 (Figure 17a) and pcN1 pcN6 (Figure 18), respectively, encoding the muteins T1-T7 and N1-N6 for the expression in S. cerevisiae was basically done as outlined in Example 3. Instead of using pUC18-AfumgDNA as the basic construct to introduce the mutations, plasmid pUC18-AfumcDNA was used (Figure 13).
 - [0047] The plasmids pcDNA-N27, -G27, -V27, -A27, -I27 and -T27 encoding the muteins N27, G27, V27, A27, I27 and T27 were constructed as follows:
 - [0048] A silent restriction site for AvrII was introduced into plasmid pcT1 by site directed mutagenesis as described in Example 3 using primer set I (Figure 14a; Figure 17b). The *A. fumigatus* phytase gene fragment AvrII/XhoI was then replaced by the linker fragment harbouring the desired mutations (Figure 17c). Each linker fragment was generated by annealing of the respective pairs of synthesized polynucleotides (Fig. 14b; sense and antisense strand; 90 ng each) for 3 min at 70 °C in 9 µI distilled water.
 - [0049] Construction of plasmids pcT1-S66D and pcT1-S140Y-D141G encoding the *A. fumigatus* Q27L-S66D double mutant and the *A. fumigatus* Q27L-S140Y-D141G triple mutant was basically carried out as described in Example 3. Plasmid pcT1, harbouring the mutation coding for Q27L, was used as template for site directed mutagenesis together with the corresponding primer sets J and K (Figure 14a; Figure 17b).
- 20 [0050] All mutations were verified by DNA sequence analysis of the entire gene.

Example 5

25

Expression in Aspergillus niger

[0051] The genes encoding the aforementioned A. furnigatus wild-type phytase and muteins (Fig. 16) were isolated with BspHI and EcoRV from plasmids pgDNAT1-pgDNAT7 and pgDNAN1-pgDNAN6 and ligated into the NcoI site downstream of the glucoamylase promoter of Aspergillus niger (glaA) and the EcoRV site upstream of the Aspergillus nidulans tryptophan C terminator (trpC) (Mullaney et al., 1985). The resulting expression plasmids had in addition the orotidine-5'-phosphate decarboxylase gene (pyr4) of Neurospora crassa as selection marker. Figure 19 shows an example for such an expression plasmid carrying the gene encoding mutein T1 (van den Hondel et al., 1991). The basic expression plasmid described above corresponds basically to the pGLAC vector described in example 9 of EP 684 313. Transformation of Aspergillus niger and expression of the muteins was done as described in EP 684 313.

[0052] The supernatant was concentrated by way of ultrafiltration in Amicon 8400 cells (PM30 membranes) and ultrafree-15 centrifugal filter devices (Biomax-30K, Millipore).

[0053] The concentrate (typically 1.5-5 ml) was desalted in aliquots of 1.5 ml on a Fast Desalting HR 10/10 column (Pharmacia Biotech), with 10 mM sodium acetate, pH 5.0, serving as elution buffer. The desalted *A. fumigatus* samples were directly loaded onto a 1.7 ml Poros HS/M cation exchange chromatography column (PerSeptive Biosystems, Framingham, MA, USA). *A. terreus* cbs116.46 [CBS 220.95] phytase was directly loaded onto a 1.7 ml Poros HQ/M anion exchange chromatography column. In both cases, phytase was eluted in pure form by way of a sodium chloride gradient.

References:

45 [0054]

50

Mullaney, E. J., J. E. Hamer, K. A. Roberti, M. M. Yelton, and W. E. Timberlake. 1985. Primary structure of the *trpC* gene from *Aspergillus nidulans*. Mol. Gen. Genet. 199:37-45.

Van den Hondel, C. A. M. J. J., P. J. Punt, and R. F. M. van Gorcom. 1991. Heterologous gene expression in filamentous fungi. *In*: More gene manipulations in fungi. pp. 396-428. Bennett, J. W. and Lasure, L. L. (eds.). Academic Press Inc., San Diego, CA.

Example 6

55 Expression in Saccharomyces cerevisiae

[0055] The intron less genes encoding the *A. fumigatus* wild-type phytase and the different muteins (Fig. 17/18) mentioned abov were isolated from the respective plasmids pUC18-AfumcDNA, pcDNAT1 - pcDNAT7 and pcDNAN1 -

pcDNAN6 with EcoRI and EcoRV and subcloned either between the blunt ended XhoI and the EcoRI sites of plasmid pYES2 (Invitrogen, San Diego, CA, USA) or the shortened GAPFL (glyceraldehyde-3-phosphate dehydrogenase) promoter and the PHO5 terminator as described by Janes et al. (1990). Transformation of Saccharomyces cerevisiae strains, e.g. INVSc1 (Invitrogen, San Diego, CA, USA) was done according to Hinnen et al. (1978). Single colonies harbouring the phytase gene under the control of the GAPFL promoter were picked and cultivated in 5ml selection medium (SD -uracil) (Sherman et al., 1986) at 30° C under vigorous shaking (250 rpm) for 1 day. The preculture was then added to 500 ml YPD medium (Sherman et al., 1986) and cultivated under the same conditions. After four days cell broth was centrifuged (7000 rpm, GS3 rotor, 15 min. 5° C) and the supernatant was collected. Induction of the GAL1 promotor (plasmid pYES2 from Invitrogen, San Diego, CA, USA) was done according to the manufacturers instructions. Purification of the muteins was as described in example 5 (s.a.).

References:

[0056]

լսս։ 15

20

Janes, M., B. Meyhack, W. Zimmermann and A. Hinnen. 1990. The influence of *GAP* promoter variants on hirudine production, avarage plasmid copy number and cell growth in *Saccharomyces* cerevisiae. Curr. Genet. 18: 97-103

Hinnen, A., J.B. Hicks and G.R. Fink. 1978. Proc. Natl. Acad. Sci. USA 75: 1929-1933

Sheman, J.P., Finck, G.R. and Hicks, J.B. (1986). Laboratory Course Manual for Methods in Yeast Genetics. Cold Spring Harbor University Press.

Example 7

Determination of phytase activity and substrate specificity

[0057] Phytase activity was measured in an assay mixture containing 0.5% phytic acid (\sim 5 mM), 200 mM sodium acetate, pH 5.0. After 15 min incubation at 37°C, the reaction was stopped by addition of an equal volume of 15% trichloroacetic acid. The liberated phosphate ions were quantified by mixing 100 μ l of the assay mixture with 900 μ l H₂O and 1 ml of 0.6 M H₂SO₄, 2% ascorbic acid and 0.5% ammonium molybdate. Standard solutions of potassium phosphate were used as reference.

[0058] In case of pH optimum curves, purified enzymes were diluted in 10 mM sodium acetate, pH 5.0. Incubations were started by mixing aliquots of the diluted protein with an equal volume of 1% phytic acid (~10 mM) in a series of different buffers: 0.4 M glycine/HCl, pH 2.5; 0.4 M acetate/NaOH, pH 3.0, 3.5, 4.0, 4.5, 5.0, 5.5; 0.4 M imidazole/HCl, pH 6.0, 6.5; 0.4 M Tris/HCl, pH 7.0, 7.5, 8.0, 8.5, 9.0. Control experiments showed that pH was only slightly affected by the mixing step. Incubations were performed for 15 min at 37°C as described above.

[0059] For determination of the substrate specificities of wild-type and mutant *A. fumigatus* phytases, phytic acid in the assay mixture was replaced by 5 mM-concentrations of the respective phosphate compounds. The activity tests were performed as described above.

[0060] Protein concentrations were calculated from the OD at 280 nm, using theoretical absorption values calculated from the known protein sequences with the DNA* software (DNASTAR, Inc., Madison, Wisconsin, USA). An absorption of 1.0 OD at 280 nm corresponds to 0.94 mg/ml *A. fumigatus* phytase and 0.85 mg/ml of *A. terreus* cbs116.46 phytase. [0061] pH profiles of Aspergillus fumigatus mutants T1 (Q27L), T5 (Q27L, Q274L) and T6 (Q27L, Q274L, G277D) have drastically changed compared to the wild-type *A. fumigatus* phytase (see Figure 2). All mutants showed equal pH profiles. Increase in specific activity at pH 5.0 of the muteins as compared to the wild-type phytase of Aspergillus fumigatus is shown in Table 2. Enzyme activities were measured under standard assay conditions at pH 5.0. Several individual measurements (n: number of assays) were averaged.

[0062] The pH profile of A. fumigatus phytase mutant Q27A resembles the pH profile of A. fumigatus wild-type phytase over nearly the whole pH range (Figure 20). Whereas the specific activity of wild-type phytase is decreasing at pH values below pH 4.0, the specific activity of the phytase mutant Q27A remains nearly constant down to pH 2.9.

[0063] The single amino acid exchanges Q27L, Q27I, Q27V or Q27T have remarkably increased the specific activity over the whole pH range, especially between pH 5.0 and 7.5 (Figure 20). Maximum values are reached at pH 6.5. In addition, mutation Q27T caused the highest specific activity values for phytic acid at low pH (pH 3.0-5.0).

[0064] Higher specific activities are also gained by the single mutations Q27G or Q27N, between pH 2.5 and 7.0, with maximum values at pH 6.0 (Figure 20). The specific activity decreases at pH values below 3.5.

[0065] All single mutants still show a broad substrate specificity which is comparable to that of *A. fumigatus* wild-type phytase (Figure 21). Some of the mutants show significantly higher specific activities than other mutants for selected

substrates, e. g., the Q27T mutant for p-nitrophenyl phosphate and ATP, or the Q27G mutant for phosphoenolpyruvate. [0066] As shown in Figure 22 the combination of mutation Q27L with S66D or S140Y and D141G led to a shift of the pH profile towards lower pH. The maximum specific activity gained by the single mutation Q27L is further increased by the additional amino acid exchanges.

5 [0067] As shown in Figure 3, Aspergillus fumigatus phytase mutant T1 (Q27L) showed no difference in substrate specificity compared to the triple mutant T6 (Q27L, Q274L, G277D).

[0068] The pH profiles of the muteins N1-6, except N2 show significant differences compared to the wild-type phytase (Fig. 10). Whereas the pH profile of mutein N4 is expanded towards lower pH, the profiles of muteins N3 to N6 are shifted towards lower pH. The muteins N5, N6 reach maximum activity already at pH 3.0.

10 [0069] The muteins N1 to N6 show in almost all cases a drastic reduction in specific activity for all tested substrates, except for phytic acid (Fig. 9). Specific activity for phytic acid remained unchanged compared to the wild-type phytase, whereas mutant N3 and N6 show a tendential higher activity (Fig. 19).

Table 1 A) Mutations towards A. terreus cbs116.46 phytase

15

20

25

30

35

40

45

50

55

Mutation	T 1	Т2	ТЗ	T4	T 5	Т6	Т7
Q27L	X				x	х	х
Q274L		x			x	x	x
G277D		-	х			x	х
N340S				х			х

B) Mutations towards A. niger (ficuum) phytase

Mutation	N1	N2	N3	N4	N5	N6
G277K	х			х	х	X
A205E		х		х ·	·	х
Y282H			х		Х	х

Table 2

		U/mg
A. fumigatus wild-type phytase	26.5 ± 5.2	22

Table 2 (continued)

		U/mg
A. fumigatus Q27L	83.4	4
A. fumigatus Q27L, Q274L	88.7 ± 13.5	8 ·
A. fumigatus Q27L, Q274L, G277D	92.3 + 12.0	9
A. terreus cbs116.46 phytase	195.8±17.8	7

10

15

10%.

A. fumigatus wild-type phytase

A. fumigatus Q27N

A. fumigatus Q27T

A. fumigatus Q27L

A. fumigatus Q271

A. fumigatus Q27V

A. fumigatus Q27A

A. fumigatus Q27G

A. fumigatus Q27L-S66D

A. fumigatus Q27L-S140Y-D141G

Table 3 Specific activity under standard assay conditions at pH 5.0. Average standard deviation is

Specific activity [U/mg]

26.5

45.5

106.9

83.4

91.2

35.0

27.3

59.6

118.5

193.0

Number of independent assays

22

3

3

4

3

3

3

3

3

3

20	

25

30

35

Example 8

[0070] As an alternative approach to obtain phytases with modified characteristics and to get a better idea about the natural variation found in phytase characteristics within a certain species, naturally occurring variants of A. fumigatus phytase were analysed. Phytase genes were obtained from six different isolates of A. fumigatus. The amino acid sequence of phytase from two of the A. fumigatus isolates (ATCC 26934 and ATCC 34625) showed no difference to the original amino acid sequence of wild-type A. fumigatus phytase ATCC 13073. Phytase from three other isolates had one or two amino acid substitutions, none of which directly affected the active site. Enzymatic characteristics remained unaffected by these substitutions (not shown). The phytase of isolate of A. fumigatus (ATCC 32239) differed in 13 positions in the signal sequence and 51 positions in the mature part of the protein compared to the original wild-type A. fumigatus phytase (ATCC 13073). Several of these substitutions affect variable amino acids of the active site cavity. This resulted in an increase in specific activity with phytic acid as substrate (47 U/mg, standard enzyme assay) and in loss of enzymatic activity above pH 7 (Fig. 24). Also in this case, the specific activity against phytic acid was increased relative to the specific activities with other substrates (Fig. 25).

Example 9

50

Construction of plasmids pc-S130N, pc-R129L-S130N, pc-K167G-R168Q encoding A. fumigatus [ATCC [0071] 13073] phytase S130N single mutant and R129L-S130N double mutant and A. nidulans phytase K167G-R168Q double mutant was basically carried out as described in Example 3. Plasmid pUC18-AfumcDNA was used as template for site directed mutagenesis together with the corresponding primer sets L, M and N (Figure 14a; Figure 26). [0072] All mutations were verified by DNA sequence analysis of the entire gene.

Example 10

[0073] When expressed in A. niger and stored as concentrated culture supernatants at 4°C, the phytases from A. fumigatus, A. nidulans displayed tendency to undergo proteolytic degradation. N-terminal sequencing of fragments suggested that cleavage occured between amino acids S130-V131 and K167-R168 or R168-A169, respectively. Compared with 3D structure of A. niger phytase revealed that all cleavage sites are found within surface-exposed loop structures and are therefore accessible to proteases.

[0074] Site-directed mutagenesis at protease-sensitive sites of *A. fumigatus* phytase (S130N, R129L-S130N) and *A. nidulans* phytase (K167G-R168Q) yielded mutant proteins with considerably reduced susceptibility to proteolysis.

[0075] In contrast to expression in A. niger, proteolytic degradation was not observed when the phytases were expressed in Hansenula polymorpha.

SEQUENCE LISTING

5	(1) GENERAL INFORMATION:
10	(i) APPLICANT: (A) NAME: F. Hoffmann-La Roche AG (B) STREET: Grenzacherstrasse 124 (C) CITY: Basle (D) STATE: BS (E) COUNTRY: Switzerland (F) POSTAL CODE (ZIP): CH-4002 (G) TELEPHONE: 061-6881395
	(I) TELEX: 962292/965542 hlr ch
15	(ii) TITLE OF INVENTION: Modified Phytases
	(iii) NUMBER OF SEQUENCES: 8
20	(iv) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
	(v) CURRENT APPLICATION DATA: APPLICATION NUMBER: EP 98104858.0
	(2) INFORMATION FOR SEQ ID NO: 1:
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1931 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
30	(ii) MOLECULE TYPE: DNA (genomic)
<i>35</i>	(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION:join(158204, 2591600)
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
	TCTGTAACCG ATAGCGGACC GACTAGGCAT CGTTGATCCA CAATATCTCA GACAATGCAA 60
40	CTCAGTCGAA TATGAAGGGC TACAGCCAGC ATTTAAATAC GGCCGTCTAG GTCGGGCTCC 120
	GGGGATGAGG AGGAGCAGGC TCGTGTTCAT TTCGGTC ATG GCT TTT TTC ACG GTC 175
45	Met Ala Phe Phe Thr Val 1 5
	GCT CTT TCG CTT TAT TAC TTG CTA TCG AG GTGAGATCTC TACAATATCT
	Ala Leu Ser Leu Tyr Tyr Leu Leu Ser Arg 10 15
50	GTCTGCTTAG TTGAATTGGT ACTTATCTGT ACAG A GTC TCT GCT CAG GCC CCA 277
	Val Ser Ala Gln Ala Pro 20

55

•	GTG 325	GTC	CAG	AAT	CAT	TCA	TGC	AAT	ACG	GCG	GAC	GGT	GGA	TAT	CAA	TGC
5	Val	Val	Gln 25	Asn	His	Ser	Cys	Asn 30	Thr	Ala	Asp	Gly	Gly 35	Tyr	Gln	Сув
	TTC 373	ccc	AAT	GTC	TCT	CAT	GTT	TGG	GGT	CAG	TAC	TCG	CCG	TAC	TTC	TCC
		Pro 40	Asn	Val	Ser	His	Val 45	Trp	Gly	Gln	Tyr	Ser 50	Pro	Tyr	Phe	Ser
10	ATC 421	GAG	CAG	GAG	TCA	GCT	ATC	TCT	GAG	GAC	GTG	ССТ	CAT	GGC	TGT	GAG
		Glu	Gln	Glu	Ser	Ala 60	Ile	Ser	Glu	Asp	Val 65	Pro	His	Gly	Сув	Glu 70
	GTT 469	ACC	TTT	GTG	CAG	GTG	CTC	TCG	CGG	CAT	GGG	GCT	AGG	TAT	CCG	ACA
15		Thr	Phe	Val	Gln 75	Val	Leu	Ser	Arg	His 80	Gly	Ala	Arg	Tyr	Pro 85	Thr
	GAG 517	TCG	AAG	AGT	AAG	GCG	TAC	TCG	GGG	TTG	ATT	GAA	GCA	ATC	CAG	AAG
		Ser	Гуз	Ser 90	Lys	Ala	Tyr	Ser	Gly 95	Leu	Ile	Glu	Ala	Ile 100	Gln	Lys
20	AAT 565	GCT	ACC	TCT	TTT	TGG	GGA	CAG	TAT	GCT	TTT	CTG	GAG	agt	TAT	AAC
		Ala	Thr 105	Ser	Phe	Trp	Gly	Gln 110	Tyr	Ala	Phe	Leu	Glu 115	Ser	Tyr	Asn
25	TAT 613	ACC	CTC	GGC	GCG	GAT	GAC	TTG	ACT	ATC	TTC	GGC	GAG	AAC	CAG	ATG
		Thr 120	Leu	Gly	Ala	Asp	Asp 125	Leu	Thr	Ile	Phe	Gly 130	Glu	Asn	Gln	Met
	GTT 661	GAT	TCG	GGT	GCC	AAG	TTC	TAC	CGA	CGG	TAT	AAG	AAT	CTC	GCC	AGG
30		Asp	Ser	Gly	Ala	Lys 140	Phe	Tyr	Arg	Arg	Tyr 145	Lys	Asn	Leu	Ala	Arg 150
	AAA 709	AAT	ACT	CCT	TTT	ATC	CGT	GCA	TCA	GGG	TCT	GAC	CGT	GTC	GTT	GCG
	ГЛЗ	Asn	Thr	Pro	Phe 155	Ile	Arg	Ala	Ser	Gly 160	Ser	Asp	Arg	Val	Val 165	Ala
35	TCT 757	GCG	GAG	AAG	TTC	ATT	AAT	GGA	TTT	CGC	AAG	GCT	CAG	CTC	CAC	GAC
	Ser	Ala	Glu	Lys 170	Phe	Ile	Asn	Gly	Phe 175	Arg	Lys	Ala	Gln	Leu 180	His	Asp
	CAT 805	GGC	TCC	AAA	CGT	GCT	ACG	CCA	GTT	GTC	AAT	GTG	ATT	ATC	CCT	GAA
40	His	Gly	Ser 185	Lys	Arg	Ala	Thr	Pro 190	Val	Val	Asn	Val	11e 195	Ile	Pro	Glu
	ATC 853	GAT	GGG	TTT	AAC	AAC	ACC	CTG	GAC	CAT	AGC	ACG	TGC	GTA	TCT	TTT
45	Ile	Asp 200	Gly	Phe	Asn	Asn	Thr 205	Leu	Asp	His	Ser	Thr 210	Суз	Val	Ser	Phe
	GAG 901	AAT	GAT	GAG	CGG	GCG	GAT	GAA	ATT	GAA	GCC	AAT	TTC	ACG	GCA	ATT
		Asn	Asp	Glu	Arg	Ala 220	Asp	Glu	Ile	Glu	Ala 225	Asn	Phe	Thr	Ala	Ile 230
50	ATG 949	GGA	CCT	CCG	ATC	CGC	AAA	CGT	CTG	GAA	AAT	GAC	CTC	CCT	GGC	ATC
		Gly	Pro	Pro	Ile 235	Arg	Lys	Arg	Leu	Glu 240	Asn	Asp	Leu	Pro	Gly 245	Ile

	AAA CTT ACA AAG	GAG AAT GTA	ATA TAT TTG ATG	GAT ATG TGC TCT TTC
5	Lys Leu Thr Ass 250		Ile Tyr Leu Met 255	Asp Met Cys Ser Phe 260
	GAC ACC ATG GC	G CGC ACC GCC	CAC GGA ACC GAG	CTG TCT CCA TTT TGT
	Asp Thr Met Ala 265	a Arg Thr Ala	His Gly Thr Glu 1 270	Leu Ser Pro Phe Cys 275
10	1093			GAC TAC CTT CÁA TCT
	Ala Ile Phe Th	r Glu Lys Glu 285		Asp Tyr Leu Gln Ser 290
	CTA TCA AAG TAG	TAC GGC TAC	GGT GCC GGA AGC	CCC CTT GGC CCA GCT
15	Leu Ser Lys Ty: 295	r Tyr Gly Tyr 300	Gly Ala Gly Ser : 305	Pro Leu Gly Pro Ala 310
	CAG GGA ATT GGG	TTC ACC AAC	GAG CTG ATT GCC (CGA CTA ACG CAA TCG
20	Gln Gly Ile Gl	y Phe Thr Asn 315	Glu Leu Ile Ala 2 320	Arg Leu Thr Gln Ser 325
20	CCC GTC CAG GAG	C AAC ACA AGC	ACC AAC CAC ACT	CTA GAC TCG AAC CCA
			Thr Asn His Thr 1 335	Leu Asp Ser Asn Pro 340
25	GCC ACA TTT CCC	G CTC GAC AGG	AAG CTC TAC GCC	GAC TTC TCC CAC GAC
	Ala Thr Phe Pro		Lys Leu Tyr Ala a 350	Asp Phe Ser His Asp 355
	AAT AGC ATG ATA	A TCG ATA TTC	TTC GCC ATG GGT	CTG TAC AAC GGC ACC
30		e Ser Ile Phe 365		Leu Tyr Asn Gly Thr 370
	CAG CCG CTG TC	A ATG GAT TCC	GTG GAG TCG ATC	CAG GAG ATG GAC GGT
	Gln Pro Leu Se: 375	r Met Asp Ser 380	Val Glu Ser Ile (385	Gln Glu Met Asp Gly 390
35	TAC GCG GCG TC	T TGG ACT GTT	CCG TTT GGT GCG	AGG GCT TAC TTT GAG
		Trp Thr Val	Pro Phe Gly Ala 2 400	Arg Ala Tyr Phe Glu 405
40	CTC ATG CAG TGG	GAG AAG AAG	GAG CCG CTT GTG	CGG GTA TTA GTG AAT
70	Leu Met Gln Cy: 410		Glu Pro Leu Val A 415	Arg Val Leu Val Asn 420
	GAT CGC GTT GT	CCT CTT CAT	GGC TGC GCA GTT (GAC AAG TTT GGA CGG
45	Asp Arg Val Val 425	l Pro Leu His	Gly Cys Ala Val 1 430	Asp Lys Phe Gly Arg 435
	TGC ACT TTG GAG	C GAT TGG GTA	GAG GGC TTG AAT	TTT GCA AGG AGC GGC
		Asp Trp Val 445		Phe Ala Arg Ser Gly 450
50	GGG AAC TGG AAG	G ACT TGT TTT	ACC CTA TAAAGGGC	GT TTGCTCATTC
	Gly Asn Trp Ly 455	s Thr Cys Phe 460	Thr Leu	

	ATAA 1680		TG T	GCAG	GTAT	A GG	AAGG	TTAG	GGA	ATTA	GCT	GTŤT	GGCT	TT A	CTCT	TATTA
i	GACC 1740		AT G	ATTT	GTTT	G TT	CTCA	AGGC	СТТ	CTAG	CAT	ATCG	TCAA	GT G	GGAT	AAATC
	ACCT 1800		TC C	ATGT	GTAG	G TG	AACC	CGCT	CTT	GCAT	CAA	CCTC	TTGT	GT T	TCAG	AGTAG
O	TTTC		AA C	TATA	CCTC	G TG	TCCT	СТСТ	TCT	GCTC	TTC	GGTC	TCAT	AT T	'ACAC	TGTTC
	TCTA		TA T	CGTC	AACA	AA A	CTAC	CACC	CAA	ACAC	CAA	ATGT	CACA	CT I	TCCA	.GCACG
	AAAT 1931	TTCI	TC G	;												
5	(2)	INFO	RMAT	NOI	FOR	SEQ	ID N	iO: 2	:							
		((A	L) LE	NGTH PE:	: 46 amir								٠		
<i>.</i> 0							prot	ein N: S	EQ I	D NO): 2:					
	Met 1	Ala	Phe	Phe	Thr 5	Val	Ala	Leu	Ser	Leu 10	Tyr	Tyr	Leu	Leu	Ser 15	Arg
25	Val	Ser	Ala	Gln 20	Ala	Pro	Val	Val	Gln 25	Asn	His	Ser	Суз	Asn 30	Thr	Ala
	Asp	Gly	Gly 35	Tyr	Gln	СЛа	Phe	Pro 40	Asn	Va1	Ser	His	Val 45	Trp	Gly	Gln
00	Tyr	Ser 50	Pro	Tyr	Phe	Ser	Ile 55	Glu	Gln	Glu	Ser	Ala 60	Ile	Ser	Glu	Asp
	Val 65	Pro	His	Gly	Суз	Glu 70	Val	Thr	Phe	Val	Gln 75	Val	Leu	Ser	Arg	His 80
25	Gly	Ala	Arg	Tyr	Pro 85	Thr	Glu	Ser	Lys	Ser 90	Lys	Ala	Tyr	Ser	Gly 95	Leu
	Ile	Glu	Ala	Ile 100	Gln	Lys	Asn	Ala	Thr 105	Ser	Phe	Trp	Gly	Gln 110	Tyr	Ala
	Phe	Leu	Glu 115	Ser	Tyr	Asn	Tyr	Thr 120	Leu	Gly	Ala	Asp	Asp 125	Leu	Thr	Ile
10	Phe	Gly 130	Glu	Asn	Gln	Met	Val 135	Asp	Ser	Gly	Ala	Lys 140	Phe	Tyr	Arg	Arg
	Tyr 145	Lys	Asn	Leu	Ala	Arg 150	Lys	Asn	Thr	Pro	Phe 155	Ile	Arg	Ala	Ser	Gly 160
5		_	_		165			Ala		170					175	
				180				Gly	182					190		
so .			195					Asp 200					205			
	Ser	Thr 210	Суѕ	Val	Ser	Phe	Glu 215	Asn	Asp	Glu	Arg	Ala 220	Asp	Glu	Ile	Glu

	Ala 225	Asn	Phe	Thr	Ala	11e 230	Met	Gly	Pro	Pro	Ile 235	Arg	Lys	Arg	Leu	Glu 240
5	Asn	Asp	Leu	Pro	Gly 245	Ile	Lys	Leu	Thr	Asn 250	Glu	Asn	Val	Ile	Tyr 255	Leu
	Met	Asp	Met	Cys 260	Ser	Phe	qaA	Thr	Met 265	Ala	Arg	Thr	Ala	His 270	Gly	Thr
10	Glu	Leu	Ser 275	Pro	Phe	Сув	Ala	Ile 280	Phe	Thr	Glu	Lys	Glu 285	Trp	Leu	Gln
	Tyr	Asp 290	Tyr	Leu	Gln	Ser	Leu 295	Ser	Lys	Tyr	Tyr	Gly 300	Tyr	Gly	Ala	Gly
	Ser 305	Pro	Leu	Gly	Pro	Ala 310	Gln	Gly	Ile	Gly	Phe 315	Thr	Asn	Glu	Leu	Ile 320
	Ala	Arg	Leu	Thr	Gln 325	Ser	Pro	Val	Gln	Asp 330	Asn	Thr	Ser	Thr	Asn 335	His
	Thr	Leu	Asp	Ser 340	Asn	Pro	Ala	Thr	Phe 345	Pro	Leu	Asp	Arg	Lys 350	Leu	Tyr
20	Ala	Asp	Phe 355	Ser	His	Asp	Asn	Ser 360	Met	Ile	Ser	Ile	Phe 365	Phe	Ala	Met
	Gly	Leu 370	Tyr	Asn	Gly	Thr	Gln 375	Pro	Leu	Ser	Met	Asp 380	Ser	Val	Glu	Ser
	11e 385	Gln	Glu	Met	Asp	Gly 390	Tyr	Ala	Ala	Ser	Trp 395	Thr	Val	Pro	Phe	Gly 400
	Ala	Arg	Ala	Tyr	Phe 405	Glu	Leu	Met	Gln	Cys 410	Glu	Lys	Lys	Glu	Pro 415	Leu
30	Val	Arg	Val	Leu 420	Val	Asn	Asp	Arg	Val 425	Val	Pro	Leu	His	Gly 430	Суз	Ala
	Val	Asp	Lys 435	Phe	Gly	Arg	Cys	Thr 440	Leu	Asp	Asp	Trp	Val 445	Glu	Gly	Leu
35	Asn	Phe 450	Ala	Arg	Ser	Gly	Gly 455	Asn	Trp	Lys	Thr	Cys 460	Phe	Thr	Leu	
	(2)	INFO					ID I									
		•	(1	A) LI B) T	ENGTI YPE :	i: 10	845 l leic ESS:	oase acid	pai:	cs						
40		(ii)					line		nomi	c)						
		(ix) FE	ATU RI	E:											
45 .				A) Ni B) L			CDS join	(288	33	4, 3	90:	1740)			
		(xi) SE	QUEN	CE D	ESCR	IPTI	ON:	SEQ	ID N	0: 3	:				
50	TTC 60	CACG	CTG .	AAAG	CCTG	AC T	GCGA'	TTTC	C AA	GCTG	CATG	CAG	GCTG	CTC :	AACTY	GCCTGC
																ACGAAC

	GCAC 180	CGCT	ст с	TTGG	CCTC	C AG	GGAC	CCGG	AGG	TCGA	.GGG	CGAT	GAGG	TC G	CGCC	CTCGA
5	CGGC 240	CTCC	CA G	TCCC	TGTI	G CA	GTTG	AGAT	CTC	GCTG	CGA	ACGT	CGAC	CG C	AGAT	ATGGT
	тстс 296	TTCG	AC G	TTT	CTCG	с ст	TCGA	.GGAA	. GAA	TTGC	TGC	TGTG	ACG	Met		
10	TTG	TTG	CTG	GTG	CTG	TCC	GGC	GGG	TTG	GTC	GCG	TTA	TA	1 GTAT	GCTC	:CT
	344	Leu 5											,			
	TCTC	CTCTC	GT C	ATAT	TGT	T TO	TGCT	'AACG	TTC	TCAT	'AAT	TGAA	Ģ Ŧ	GTC	TÇA	AGA
15								•						Val	Ser	Arg
	447	CCG Pro														
20	20					25					30					35
	495	TGT Cys														
25		TCC	CTG	GCA		CAG	TCG	GAG	ATC	TCG	CCA	GAT	GTC	CCA		AAC
20	543 Phe	Ser	Leu	Ala 55	Asp	Gln	Ser	Glu	Ile 60	Ser	Pro	qeA	Val	Pro 65	Gln	Asn
	591	AAG														
3 <i>o</i> į	Сув	Lys	Tle 70	Thr	Phe	Val	Gln	Leu 75	Leu	Ser	Arg	His	Gly 80	Ala	Arg	Tyr
	639	ACG Thr					Glu					Leu				
35	CAG	85 AAG	ACG	GCG	ACT	GCG	90 TAC	AAA	GGC	TAC	TAT	95 GCC	TTC	TTG	AAA	GAC
	687 Gln 100	Lys	Thr	Ala	Thr	Ala 105	Tyr	Lys	Gly	Tyr	Туг 110	Ala	Phe	Leu	Lys	Авр 115
	TAC 735	AGA	TAC	CAG	CTG	GGA	GCG	AAC	GAC	CTG	ACG	ccc	TTT	GGG	GAA	AAC
40		Arg	Tyr	Gln	Leu 120	Gly	Ala	Asn	Asp	Leu 125	Thr	Pro	Phe	Gly	Glu 130	Asn
	783	ATG														
45		Met		135				-	140	_			_	145		
	831	AGG Arg	Asn					Val					Ser			
	ATT	GCC	150 TCG	GGG	AGA	CTT	TTC	155 ATC	GAA	GGT	TTC	CAG	160 AGC	GCC	AAA	GTG
50	879	Ala 165														
		200										_, _				

	CTG GAT	CCT	CAT	TCA	GAC	AAG	CAT	GAC	GCT	CCT	CCC	ACG	ATC	AAC	GTG
5	Leu Asp 180	Pro	His	Ser	Asp 185	Lys	His	Asp	Ala	Pro 190	Pro	Thr	Ile	Asn	Val 195
	ATC ATC	GAG	GAG	GGT	CCG	TCC	TAC	AAT	AAC	ACG	CTC	GAC	ACC	GGC	AGC
	Ile Ile	Glu	Glu	Gly 200	Pro	Ser	Tyr	Asn	Asn 205	Thr	Leu	Asp	Thr	Gly 210	Ser
10	TGT CCA	GTC	TTT	GAG	GAC	AGC	AGC	GGG	GGA	CAT	GAC	GCA	CAG	GAA	AAG
	Cys Pro	Val	Phe 215	Glu	Asp	Ser	Ser	Gly 220	Gly	His	Asp	Ala	Gln 225	Glu	Lys
	TTC GCA	AAG	CAA	TTC	GCA	CCA	GCT	ATC	CTG	GAA	AAG	ATC	AAG	GAC	CAT
15	Phe Ala	Lys 230	Gln	Phe	Ala	Pro	Ala 235	Ile	Leu	Glu	Lys	11e 240	Lys	Asp	His
	CTT CCC	GGC	GTG	GAC	CTG	GCC	GTG	TCG	GAT	GTA	CCG	TAC	TTG	ATG	GAC
	Leu Pro 245	Gly	Val	Asp	Leu	Ala 250	Val	Ser	Asp	Val	Pro 255	Ţyr	Leu	Met	Asp
20	TTG TGT	CCG	TTT	GAG	ACC	TTG	GCT	CGC	AAC	CAC	ACA	GAC	ACG	CTG	TCT
	Leu Cys 260	Pro	Phe	Glu	Thr 265	Leu	Ala	Arg	Asn	His 270	Thr	Asp	Thr	Leu	Ser 275
25	CCG TTC 1215	TGC	GCT	CTT	TCC	ACG	CAA	GAG	GAG	TGG	CAA	GCA	TAT	GAC	TAC
25	Pro Phe	Cys	Ala	Leu 280	Ser	Thr	Gln	Glu	Glu 285	Trp	Gln	Ala	Tyr	Asp 290	Tyr
	TAC CAA	AGT	CTG	GGG	AAA	TAC	TAT	GGC	AAT	GGC	GGG	GGT	AAC	CCG	TTG
30	Tyr Gln	Ser	Leu 295	Gly	Lys	Tyr	Tyr	Gly 300	Asn	Gly	Gly	Gly	Asn 305	Pro	Leu
	GGG CCA 1311	GCC	CAA	GGC	GTG	GGG	TTT	GTC	AAC	GAG	TTG	ATT	GCT	CGC	ATG
	Gly Pro	Ala 310	Gln	Gly	Val	Gly	Phe 315	Val	Asn	Glu	Leu	11e 320	Ala	Arg	Met
35	ACC CAT	AGC	CCT	GTC	CAG	GAC	TAC	ACC	ACG	GTC	AAC	CAC	ACT	CTT	GAC
	Thr His	Ser	Pro	Val	Gln	330 Yab	Tyr	Thr	Thr	Val	Asn 335	His	Thr	Leu	Asp
	TCG AAT	CCG	GCG	ACA	TTC	CCT	TTG	AAC	GCG	ACG	CTG	TAC	GCA	GAT	TTC
40	Ser Asn 340	Pro	Ala	Thr	Phe 345	Pro	Leu	Asn	Ala	Thr 350	Leu	Tyr	Ala	Asp	Phe 355
	AGC CAC	GAC	AAC	ACA	ATG	ACG	TCA	ATT	TTC	GCG	GCC	TTG	GGC	CTG	TAC
45	Ser His	Asp	Asn	Thr 360	Met	Thr	Ser	Ile	Phe 365	Ala	Ala	Leu	Gly	Leu 370	Tyr
	AAC GGG 1503	ACC	GCG	AAG	CTG	TCC	ACG	ACC	GAG	ATC	AAG	TCC	ATT	GAA	GAG
	Asn Gly	Thr	Ala 375	Lys	Leu	Ser	Thr	Thr 380	Glu	Ile	Lys	Ser	Ile 385	Glu	Glu
50	ACG GAC 1551	GGC	TAC	TCG	GCG	GCG	TGG	ACC	GTT	CCG	TTC	GGG	GGG	CGA	GCC
	Thr Asp	Gly 390	Tyr	Ser	Ala	Ala	Trp 395	Thr	Val	Pro	Phe	Gly 400	Gly	Arg	Ala

			GAG	ATG	ATG	CAG	TGT	GAT	GAT	TCG	GAT	GAG	CCA	GTC	GTT	CGG
ī	1599 Tyr		Glu	Met	Met	Gln	Суз 410	Asp	Asp	Ser	Asp	Glu 415	Pro	Val	Val	Arg
	GTG 1647		GTC	AAC	GAC	CGG	GTG	GTG	CCA	CTG	CAT	GGC	TGC	GAG	GTG	GAC
			Val	Asn	Asp	Arg 425	Val	Val	Pro	Leu	His 430	Gly	Сув	Glu	Val	Asp 435
10	TCC 1699		GGG	CGA	TGC	AAA	CGA	GAC	GAC	TTT	GTC	AGG	GGA	CTG	AGT	TTT
			Gly	Arg	Cys 440	Lys	Arg	Asp	Asp	Phe 445	Val	Arg	Gly	Leu	Ser 450	Phe
	GCG 1740		CAG	GGT	GGG	AAC	TGG	GAG	GGG	TGT	TAC	GCT	GCT	TCT	GAG	
15			Gln	Gly 455	Gly	Asn	Trp	Glu	Gly 460	Сув	Tyr	Ala	Ala	Ser 465	Glu	
	TAG0		ATT (CAGC	GAGT	PT C	GACC'	rtte:	TA 1	CTT	AAA	CAC	rgcac	CAA I	AGACA	CAC'
20	CATO 1849		rgg :	raac:	AGGC	CT GO	GAGC	GTTT	r AG	\AGG/	AAA	AAG	TT			
	(2)	INF	ORMA:	rion	FOR	SEQ	ID I	NO: 4	1:							
25			(2	A) LI B) T	ENGTI YPE :	CHAI H: 40 ami OGY:	56 ar	mino cid								
						YPE: ESCR			SEQ :	ID NO	o: 4	:				
30	Met 1	Ser	Leu	Leu	Leu 5	Leu	Val	Leu	Ser	Gly 10	Gly	Leu	Val	Ala	Leu 15	Tyr
	Val	Ser	Arg	Asn 20	Pro	His	Val	Asp	Ser 25	His	Ser	Сув	Asn	Thr 30	Val	Glu
35	Gly	Gly	Tyr 35	Gln	Суз	Arg	Pro	Glu 40	Ile	Ser	His	Ser	Trp 45	Gly	Gln	Tyr
55	Ser	Pro 50	Phe	Phe	Ser	Leu	Ala 55	Asp	Gln	Ser	Glu	Ile 60	Ser	Pro	Asp	Val
	Pro 65	Gln	Asn	Cys	Lys	Ile 70	Thr	Phe	Val	Gln	Le u 75	Leu	Ser	Arg	His	Gly 80
10	Ala	Arg	Tyr	Pro	Thr 85	Ser	Ser	Lys	Thr	Glu 90	Leu	Tyr	Ser	Gln	Leu 95	Ile
	Ser	Arg	Ile	Gln 100	Lys	Thr	Ala	Thr	Ala 105	Tyr	Lys	Gly	Tyr	Туг 110	Ala	Phe
15	Leu	Lys	Asp 115	Tyr	Arg	Tyr	Gln	Leu 120	Gly	Ala	Asn	Asp	Leu 125	Thr	Pro	Phe
	Gly	Glu 130	Asn	Gln	Met	Ile	Gln 135	Leu	Gly	Ile	Lys	Phe 140	Tyr	Asn	His	Tyr
50	Lys 145	Ser	Leu	Ala	Arg	Asn 150	Ala	Val	Pro	Phe	Val 155		Сув	Ser	Gly	Ser 160

23

Asp Arg Val Ile Ala Ser Gly Arg Leu Phe Ile Glu Gly Phe Gln Ser 165 $\,$ 170 $\,$ 175

	Ala	Lys	Val	Leu 180	Asp	Pro	His	Ser	Asp 185	Lys	His	Asp	Ala	Pro 190	Pro	Thr
5	Ile	Asn	Val 195	Ile	Ile	Glu	Glu	Gly 200	Pro	Ser	Tyr	Asn	Asn 205	Thr	Leu	Asp
	Thr	Gly 210	Ser	Cys	Pro	Val	Phe 215	Glu	Asp	Ser	Ser	Gly 220	Gly	His	Asp	Ala
10	Gln 225	Glu	Lys	Phe	Ala	Lys 230	Gln	Phe	Ala	Pro	Ala 235	Ile	Leu	Glu	Lys	11e 240
	Lys	Asp	His	Leu	Pro 245	Gly	Val	Asp	Leu	Ala 250	Val	Ser	Asp	Val	Pro 255	Tyr
	Leu	Met	Asp	Leu 260	Cys	Pro	Phe	Glu	Thr 265	Leu	Ala	Arg	Asn	His 270	Thr	Asp
15	Thr	Leu	Ser 275	Pro	Phe	Cys	Ala	Leu 280	Ser	Thr	Gln	Glu	Glu 285	Trp	Gln	Ala
	Tyr	Asp 290	Tyr	Tyr	Gln	Ser	Leu 295	Gly	Lys	Tyr	Tyr	Gly 300	Asn	Gly	Gly	Gly
20	Asn 305	Pro	Leu	Gly	Pro	Ala 310	Gln	Gly	Val	Gly	Phe 315	Val	Asn	Glu	Leu	Ile 320
	Ala	Arg	Met	Thr	His 325	Ser	Pro	Val	Gln	Asp 330	Tyr	Thr	Thr	Val	Asn 335	His
25	Thr	Leu	Asp	Ser 340	Asn	Pro	Ala	Thr	Phe 345	Pro	Leu	Asn	Ala	Thr 350	Leu	Tyr
	Ala	Asp	Phe 355	Ser	Kis	Asp	Asn	Thr 360	Met	Thr	Ser	Ile	Phe 365	Ala	Ala	Leu
30	Gly	Leu 370	Tyr	Asn	Gly	Thr	Ala 375	Lys	Leu	Ser	Thr	Thr 380	Glu	Ile	Lys	Ser
	Ile 385	Glu	Glu	Thr	Asp	Gly 390	Tyr	Ser	Ala	Ala	Trp 395	Thr	Val	Pro	Phe	Gly 400
	Gly	Arg	Ala	Tyr	11e 405	Glu	Met	Met	Gln	Cys 410	qaA	Asp	Ser	Asp	Glu 415	Pro
35				420					425					430	Gly	
	Glu	Val	Asp 435	Ser	Leu	Gly	Arg	Cys 440	Lys	Arg	Asp	Asp	Phe 445	Val	Arg	Gly
40	Leu	Ser 450	Phe	Ala	Arg	Gln	Gly 455	Gly	Asn	Trp	Glu	Gly 460	Суз	Tyr	Ala	Ala
	Ser 465	Glu														
4.5	(2)	INFO	RMAT	NOI	FOR	SEQ	ID N	iO: 5	S :							
45		(1)	(F	() LE 3) TY C) ST	ingth (Pe : (rani	IARAC I: 15 nucl EDNE GY:	71 t leic SS:	ase acid doub	pair 1	s						
:		/::1	MOT	ECIT	- m	me.	DNA									

- (ii) MOLECULE TYPE: DNA (genomic)
- (ix) FEATURE:

				A) NA B) LC				43	89,	147.	.149	94)				
5		(xi)	SE(QUENC	E DE	SCRI	PTIC	N: 5	EQ I	D NO): 5:					
		TCA	CG A	LCGG#	IGGA	T CG	CAAC	CCTA	LTA A	GTCG	GTA	TC A	TG G	TG A	CT C	TG
	54								i,s	٠.			et V	al I	hr I	.eu
10	ACT	TTC	CTG	CTT	TCG	GCG	GCG	TAT	CTG	СТТ	тст			GTGG	CT	
	99 Thr 5	Phe	Leu	Leu	Ser	Ala 10	Ala	Tyr	Leu	Leu	Ser 15	Gly				
	TGG#	ATCTI	ATT (CTC	GAT	AG GO	CTGT	CGT	CTC	SATTO	TGA	AAC	GAG			
15														Aı	tg Va	1
	TCT 201	GCG	GCA	CCT	AGT	TCT	GCT	GGC	TCC	AAG	TCC	TGC	GAT	ACG	GTA	GAC
		Ala 20	Ala	Pro	Ser	Ser	Ala 25	Gly	Ser	Lys	Ser	Cys	Asp	Thr	Val	Asp
20	CTC 249	GGG	TAC	CAG	TGC	TCC	ССТ	GCG	ACT	тст	CAT	CTA	TGG	GGC	CAG	TAC
		Gly	Tyr	Gln	Cys	Ser 40	Pro	Ala	Thr	Ser	His 45	Leu	Trp	Gly	Gln	Tyr 50
25	TCG 297	CCA	TTC	TTT	TCG	CTC	GAG	GAC	GAG	CTG	TCC	GTG	TCG	AGT	AAG	CTT
		Pro	Phe	Phe	Ser 55	Leu	Glu	Asp	Glu	Leu 60	Ser	Val	Ser	Ser	Lys 65	Leu
	CCC 345	AAG	GAT	TGC	CGG	ATC	ACC	TTG	GTA	CAG	GTG	CTA	TCG	CGC	CAT	GGA
30		Lys	Asp	Суs 70	Arg	Ile	Thr	Leu	Val 75	Gln	Val	Leu	Ser	Arg 80	His	Gly
	GCG 393	CGG	TAC	CCA	ACC	AGC	TCC	AAG	AGC	AAA	AAG	TAT	AAG	AAG	CTT	GTG
		Arg	Tyr 85	Pro	Thr	Ser	Ser	Lys 90	Ser	Lys	Lys	Tyr	Lys 95	Lys	Leu	Val
35	ACG 441	GCG	ATC	CAG	GCC	ĄĄT	GCC	ACC	GAC	TTC	AAG	GGC	AAG	TTT	GCC	TTT
		Ala 100		Gln	Ala	Asn	Ala 105	Thr	Asp	Phe	Lys	Gly 110	Lys	Phe	Ala	Phe
•	TTG 489	AAG	ACG	TAC	AAC	TAT	ACT	CTG	GGT	GCG	GAT	GAC	CTĊ	ACT	ccc	TTT
40		Lys	Thr	Tyr	, Yau	Tyr 120	Thr	Leu	Gly	Ala	Asp 125	Asp	Leu	Thr	Pro	Phe 130
	GGG 537	GAG	CAG	CAG	CTG	GTG	AAC	TCG	GGC	ATC	AAG	TTC	TAC	CAG	AGG	TAC
	Gly	Glu	Gln	Gln	Leu 135	Val	Asn	Ser	Gly	Ile 140	Lys	Phe	Tyr	Gln	Arg 145	Tyr
45		GCT	CTG	GCG	CGC	AGT	GTG	GTG	CCG	TTT	ATT	CGC	GCC	TCA	GGC	TCG
	585 Lys	Ala	Leu	Ala 150	Arg	Ser	Val	Val	Pro 155	Phe	Ile	Arg	Ala	Ser 160	Gly	Ser
50	GAC 633	CGG	GTT	ATT	GCT	TCG	GGA	GAG	AAG	TTC	ATC	GAG	GGG	TTC	CAG	CAG
		Arg	Val 165	Ile	Ala	Ser	Gly	Glu 170	Lys	Phe	Ile	Glu	Gly 175	Phe	Gln	Gln

	GCG AAG C	CTG GCT	GAT	CCT	GGC	GCG	ACG	AAC	CGC	GCC	GCT	CCG	GCG	ATT
5	Ala Lys I 180	Ceu Ala	Asp	Pro	Gly 185	Ala	Thr	Asn	Arg	Ala 190	Ala	Pro	Ala	Ile
	AGT GTG F	ATT ATT	CCG	GAG	AGC	GAG	ACG	TTC	AAC	AAT	ACG	CTG	GAC	CAC
	Ser Val I	Ile Ile	Pro	Glu 200	Ser	Glu	Thr	Phe	Asn 205	Asn	Thr	Leu	Asp	His 210
10	GGT GTG 1	rgc acg	AAG	TTT	GAG	GCG	AGT	CAG	CTG	GGA	GAT	GAG	GTT	GCG
	Gly Val (Cys Thr	Lys 215	Phe	Glu	Ala	Ser	Gln 220	Leu	Gly	Asp	Glu	Val 225	Ala
	GCC AAT 1	TTC ACT	GCG	CTC	TTT	GCA	CCC	GAC	ATC	CGA	GCT	CGC	GCC	GAG
15	Ala Asn I	Phe Thr 230	Ala	Leu	Phe	Ala	Pro 235	Asp	Ile	Arg	Ala	Arg 240	Ala	Glu
	AAG CAT C	CTT CCT	GGC	GTG	ACG	CTG	ACA	GAC	GAG	GAC	GTT	GTC	agt	CTA
20	873 Lys His I	Leu Pro 245	Gly	Val	Thr	Leu 250	Thr	Asp	Glu	Asp	Val 255	Val	Ser	Leu
20	ATG GAC	ATG TGT	TCG	TTT	GAT	ACG	GTA	GCG	CGC	ACC	AGC	GAC	GCA	AGT
	921 Met Asp 1 260	Met Cys	Ser	Phe	Asp 265	Thr	Val	Ala	Arg	Thr 270	Ser	Asp	Ala	Ser
25	CAG CTG 7	CA CCG	TTC	TGT	CAA	CTC	TTC	ACT	CAC	AAT	GAG	TGG	AAG	AAG
	Gln Leu S 275	Ser Pro	Phe	Cys 280	Gln	Leu	Phe	Thr	His 285	Asn	Glu	Trp	Lys	Lys 290
	TAC AAC 1	TAC CTT	CAG	TCC	TTG	GGC	AAG	TAC	TAC	GGC	TAC	GGC	GCA	GGC
30	Tyr Asn 1	Tyr Leu	Gln 295	Ser	Leu	Gly	ГЛЗ	Tyr 300	Tyr	Gly	Tyr	Gly	Ala 305	Gly
	AAC CCT (CTG GGA	CCG	GCT	CAG	GGG	ATA	GGG	TTC	ACC	AAC	GAG	CTG	ATT
	Asn Pro 1	Leu Gly 310	Pro	Ala	Gln	Gly	11e 315	Gly	Phe	Thr	Asn	Glu 320	Leu	Ile
35	GCC CGG 7	TTG ACT	CGT	TCG	CCA	GTG	CAG	GAC	CAC	ACC	AGC	ACT	AAC	TCG
	Ala Arg I	Leu Thr 325	Arg	Ser	Pro	Val 330	Gln	Asp	His	Thr	Ser 335	Thr	Asn	Ser
	ACT CTA (STC TCC	AAC	CCG	GCC	ACC	TTC	CCG	TTG	AAC	GCT	ACC	ATG	ŤAC
40	Thr Leu V	Val Ser	Asn	Pro	Ala 345	Thr	Phe	Pro	Leu	Asn 350	Ala	Thr	Met	Tyr
	GTC GAC 1	TTT TCA	CAC	GAC	AAC	AGC	ATG	GTT	TCC	ATC	TTC	TTT	GCA	TTG
45	Val Asp 1 355	Phe Ser	His	Asp 360	Asn	Ser	Met	Val	Ser 365	Ile	Phe	Phe	Ala	Leu 370
	GGC CTG	TAC AAC	GGC	ACT	GAA	CCC	TTG	TCC	CGG	ACC	TCG	GTG	GAA	AGC
	1257 Gly Leu '	Tyr Asn	Gly 375	Thr	Glu	Pro	Leu	Ser 380	Arg	Thr	Ser	Val	Glu 385	Ser
50	GCC AAG	GAA TTG	GAT	GGG	TAT	TCT	GCA	TCC	TGG	GTG	GTG	CCT	TTC	GGC
	1305 Ala Lys	Glu Leu 390		Gly	Tyr	Ser	Ala 395	Ser	Trp	Va1	Val	Pro 400	Phe	Gly

GCG CGA GCC TAC TTC GAG ACG ATG CAA TGC AAG TCG GAA AAG GAG CCT Ala Arg Ala Tyr Phe Glu Thr Met Gln Cys Lys Ser Glu Lys Glu Pro CTT GTT CGC GCT TTG ATT AAT GAC CGG GTT GTG CCA CTG CAT GGC TGC Leu Val Arg Ala Leu Ile Asn Asp Arg Val Val Pro Leu His Gly Cys 420 425 430 GAT GTG GAC AAG CTG GGG CGA TGC AAG CTG AAT GAC TTT GTC AAG GGA 10 Asp Val Asp Lys Leu Gly Arg Cys Lys Leu Asn Asp Phe Val Lys Gly
435 440 445 450 TTG AGT TGG GCC AGA TCT GGG GGC AAC TGG GGA GAG TGC TTT AGT Leu Ser Trp Ala Arg Ser Gly Gly Asn Trp Gly Glu Cys Phe Ser 455 460 465 15 TGAGATGTCA TTGTTATGCT ATACTCCAAT AGACCGTTGC TTAGCCATTC ACTTCACTTT 1554 GCTCGAACCG CCTGCCG 20 (2) INFORMATION FOR SEQ ID NO: 6: (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 465 amino acids(B) TYPE: amino acid(D) TOPOLOGY: linear 25 (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6: Mer Val Thr Leu Thr Phe Leu Leu Ser Ala Ala Tyr Leu Leu Ser Gly 30 Arg Val Ser Ala Ala Pro Ser Ser Ala Gly Ser Lys Ser Cys Asp Thr Val Asp Leu Gly Tyr Gln Cys Ser Pro Ala Thr Ser His Leu Trp Gly 35 40 45 35 Gln Tyr Ser Pro Phe Phe Ser Leu Glu Asp Glu Leu Ser Val Ser Ser 50 60 Lys Leu Pro Lys Asp Cys Arg Ile Thr Leu Val Gln Val Leu Ser Arg 65 70 75 80 His Gly Ala Arg Tyr Pro Thr Ser Ser Lys Ser Lys Lys Tyr Lys Lys 85 90 95 40 Leu Val Thr Ala Ile Gln Ala Asn Ala Thr Asp Phe Lys Gly Lys Phe 100 105 110 Ala Phe Leu Lys Thr Tyr Asn Tyr Thr Leu Gly Ala Asp Asp Leu Thr 45 Pro Phe Gly Glu Gln Gln Leu Val Asn Ser Gly Ile Lys Phe Tyr Gln 130 135 140 Arg Tyr Lys Ala Leu Ala Arg Ser Val Val Pro Phe Ile Arg Ala Ser 145 150 155 160

Gly Ser Asp Arg Val Ile Ala Ser Gly Glu Lys Phe Ile Glu Gly Phe

	Gln	Gln	Ala	Lys 180	Leu	Ala	Asp	Pro	Gly 185	Ala	Thr	Asn	Arg	Ala 190	Ala	Pro
5	Ala	Ile	Ser 195	Val	Ile	Ile	Pro	Glu 200	Ser	Glu	Thr	Phe	Asn 205	Asn	Thr	Leu
	Asp	His 210	Gly	Val	Суз	Thr	Lys 215	Phe	G1u	Ala	Ser	Gln 220	Leu	Gly	Āsp	Glu
10	Val 225	Ala	Ala	Asn	Phe	Thr 230	Ala	Leu	Phe	Ala	Pro 235	Asp	Ile	Arg	Ala	Arg 240
	Ala	Glu	ГÀЗ	His	Leu 245	Pro	Gly	Val	Thr	Leu 250	Thr	Asp	Glu	qaA	Val 255	Val
	Ser	Leu	Met	Asp 260	Met	Cys	Ser	Phe	Asp 265	Thr	Val	Ala	Arg	Thr 270	Ser	Asp
15	Ala	Ser	Gln 275	Leu	Ser	Pro	Phe	Суз 280	Gln	Leu	Phe	Thr	His 285	Asn	Glu	Trp
	Lys	Lys 290	Tyr	Asn	Tyr	Leu	Gln 295	Ser	Leu	Gly	Lys	Тут 300	Tyr	Gly	Tyr	Gly
20	Ala 305	Gly	Asn	Pro	Leu	Gly 310	Pro	Ala	Gln	Gly	Ile 315	Gly	Phe	Thr	Asn	Glu 320
	Leu	Ile	Ala	Arg	Leu 325	Thr	Arg	Ser	Pro	Val 330	Gln	Asp	His	Thr	Ser 335	Thr
25	Asn	Ser	Thr	Leu 340	Val	Ser	Asn	Pro	Ala 345	Thr	Phe	Pro	Leu	Asn 350	Ala	Thr
	Met	Tyr	Val 355	qzA	Phe	Ser	His	Asp 360	Asn	Ser	Met	Val	Ser 365	Ile	Phe	Phe
30	Ala	Leu 370	Gly	Leu	Tyr	Asn	Gly 375	Thr	Glu	Pro	Leu	Ser 380	Arg	Thr	Ser	Val
30	Glu 385	Ser	Ala	Lys	Glu	Leu 390	Asp	Gly	Tyr	Ser	Ala 395	Ser	Trp	Val	Val	Pro 400
	Phe	Gly	Ala	Arg	Ala 405	Tyr	Phe	Glu	Thr	Met 410	Gln	Суз	Lys	Ser	Glu 415	Lys
35	Glu	Pro	Leu	Val 420	Arg	Ala	Leu	Ile	Asn 425	Asp	Arg	Va1	Val	Pro 430	Leu	His
	Gly	Cys	Asp 435	Val	Asp	Lys	Leu	Gly 440	Arg	Суз	Lys	Leu	Asn 445	Asp	Phe	Val
40	Lys	Gly 450	Leu	Ser	Trp	Ala	Arg 455	Ser	Gly	Gly	Asn	Trp 460	Gly	Glu	Cys	Phe
	Ser 465															
	(2)				FOR	_										
45		(1)	() ()	A) LI B) T C) S'	CE CI ENGTI PE: TRANI OPOLO	i: 1! nuc: DEDNI	567] leic ESS:	base acid dou!	pai:	rs						
50		(ii) MO	LECU	LE T	YPE:	DNA	(ge	nomi	c)						
		(ix) FE	ATUR:	E:											

	(A) NAME/KEY: CDS (B) LOCATION: join (78124, 1771527)														
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:														
	ACGTCCCAGG TCGGGGACTA CATCCGCTAT GTGGTCCTCT ACTTCGTCGG AAGAATATAC 60														
	TGTCTCTTGT GGCTACC ATG GGG GTT TTC GTC GTT CTA TTA TCT ATC GCG														
10	Met Gly Val Phe Val Val Leu Leu Ser Ile Ala 1 5 10														
	ACT CTG TTC GGC AG GTATGTGCAC CGCTCTAGGT TCAACTCGCC TGGTAACTGA														
15	Thr Leu Phe Gly Ser														
	CAAACAGCAC AG C ACA TCG GGC ACT GCG CTG GGC CCC CGT GGA AAT CAC 213														
	Thr Ser Gly Thr Ala Leu Gly Pro Arg Gly Asn His														
20	AGC GAC TGC ACC TCA GTC GAC CGG GGG TAT CAA TGC TTC CCT GAG CTC 261														
	Ser Asp Cys Thr Ser Val Asp Arg Gly Tyr Gln Cys Phe Pro Glu Leu 30 40														
	TCC CAT AAA TGG GGT CTC TAC GCG CCC TAT TTC TCC CTC CAG GAT GAA														
25	Ser His Lys Trp Gly Leu Tyr Ala Pro Tyr Phe Ser Leu Gln Asp Glu 45 50 55 60														
	TCT CCG TTT CCT CTG GAC GTC CCG GAT GAC TGC CAC ATC ACC TTT GTG														
30	Ser Pro Phe Pro Leu Asp Val Pro Asp Asp Cys His Ile Thr Phe Val 65 70 75														
	CAG GTG CTG GCC CGA CAT GGA GCG CGG TCT CCA ACC GAT AGC AAG ACA														
	Gln Val Leu Ala Arg His Gly Ala Arg Ser Pro Thr Asp Ser Lys Thr 80 85 90														
35	AAG GCG TAT GCC GCG ACT ATT GCA GCC ATC CAG AAG AAT GCC ACC GCG														
	Lys Ala Tyr Ala Ala Thr Ile Ala Ala Ile Gln Lys Asn Ala Thr Ala 95 100 105														
	TTG CCG GGC AAA TAC GCC TTC CTG AAG TCG TAC AAT TAC TCC ATG GGC 501														
40	Leu Pro Gly Lys Tyr Ala Phe Leu Lys Ser Tyr Asn Tyr Ser Met Gly 110 115 120														
	TCC GAG AAC CTG AAC CCC TTC GGG CGG AAC CAA CTG CAA GAT CTG GGC 549														
45	Ser Glu Asn Leu Asn Pro Phe Gly Arg Asn Gln Leu Gln Asp Leu Gly 125 130 135 140														
45	GCC CAG TTC TAC CGT CGC TAC GAC ACC CTC ACC CGG CAC ATC AAC CCT														
	Ala Gln Phe Tyr Arg Arg Tyr Asp Thr Leu Thr Arg His Ile Asn Pro 145 150 155														
50	TTC GTC CGG GCC GCG GAT TCC TCC CGC GTC CAC GAA TCA GCC GAG AAG														
	Phe Val Arg Ala Ala Asp Ser Ser Arg Val His Glu Ser Ala Glu Lys 160 165 170														

	TTC 693	GTC	GAG	GGC	TTC	CAA	AAC	GCC	CGC	CAA	GGC	GAT	ССТ	CAC	GCC	AAC
5		Val	Glu 175	Gly	Phe	Gln	Asn	Ala 180	Arg	Gln	Gly	Asp	Pro 185	His	Ala	Asn
-	CCT 741	CAC	CAG	CCG	TCG	CCG	CGC	GTG	GAT	GTA	GTC	ATC	ccc	GAA	GGC	ACC
•		His 190	Gln	Pro	Ser	Pro	Arg 195	Val	Asp	Val	Val	Ile 200	Pro	Glu	Gly	Thr
10	GCC 789	TAC	AAC	AAC	ACG	CTC	GAG	CAC	AGC	ATC	TGC	ACC	GCC	TTC	GAG	GCC
		Tyr	Asn	Asn	Thr	Leu 210	Glu	His	Ser	Ile	Cys 215	Thr	Ala	Phe	Glu	Ala 220
	AGC 837	ACC	GTC	GGC	GAC	GCC	GCG	GCA	GAC	AAC	TTC	ACT	GCC	GTG	TTC	GCG
15		Thr	Val	Gly	Asp 225	Ala	Ala	Ala	Asp	Asn 230	Phe	Thr	Ala	Val	Phe 235	Ala
	CCG 885	GCG	ATC	GCC	AAG	CGT	CTG	GAG	GCC	GAT	CTG	CCC	GGC	GTG	CAG	CTG
	Pro	Ala	Ile	Ala 240	Lys	Arg	Leu	Glu	Ala 245	Asp	Leu	Pro	Gly	Val 250	Gln	Leu
20	TCC 933	GCC	GAC	GAC	GTG	GTC	AAT	CTG	ATG	GCC	ATG	TGT	CCG	TTC	GAG	ACG
	Ser	Ala	Asp 255	Asp	Val	Val	Asn	Leu 260	Met	Ala	Met	Сув	Pro 265	Phe	Glu	Thr
25	981	AGC														
23		Ser 270					275					280				
	1029															
30	Phe 285	Thr	Ala	Ala	Glu	Trp 290	Thr	Gln	Tyr	Asn	Tyr 295	Leu	Leu	Ser	Leu	Asp 300
	1077															
	Lys	Tyr	Tyr	Gly	Tyr 305	Gly	Gly	Gly	Asn	Pro 310	Leu	Gly	Pro	Val	Gln 315	Gly
35	1125															
		Gly		320					325					330		
	117.															
40		Asp	335					340			_		345			
	1223															
	Phe	Pro 350	Leu	Asn	Ala	Thr	Leu 355	Tyr	Ala	Asp	Phe	Ser 360	His	Asp	Ser	Asn
45	CTG 1269	GTG	TCG	ATC	TTC	TGG	GCG	ٿيڻ	GGT	CTG	TAC	AAC	GGC	ACC	AAG	ccc
		Val	Ser	Ile	Phe	Trp 370	Ala	Leu	Gly	Leu	Tyr 375	Asn	Gly	Thr	Lys	Pro 380
50	131															
		Ser	Gln	Thr	Thr 385	Val	Glu	Asp	Ile	Thr 390	Arg	Thr	Asp	Gly	Tyr 395	Ala

	GCC		TGG	ACG	GTG	CCG	TTT	GCC	GCC	CGC	GCC	TAC	ATC	GAG	ATG	ATG
5	1365 Ala		Trp	Thr 400	Val	Pro	Phe	Ala	Ala 405	Arg	Ala	Tyr	Ile	Glu 410	Met	Met
	CAG		CGC	GCG	GAG	AAG	CAG	CCG	CTG	GTG	CGC	GTG	CTG	GTC	AAC	GAC
	1413 Gln		Arg 415	Ala	Glu	Lys	Gln	Pro 420	Leu	Val	Arg	Val	Leu 425	Val	Asn	Asp
10			ATG	CCG	CTG	CAC	GGC	TGC	GCG	GTG	GAT	AAT	CTG	GGC	AGG	TGT
•	1461 Arg		Met	Pro	Leu	His	Gly 435	Сув	Ala	Val	Asp	Asn 440	Leu	Gly	Arg	Cys
			GAC	GAC	TTT	GTG	GAG	GGA	CTG	AGC	TTT	GCG	CGG	GCA	GGA	GGG
15	1509 Lys 445		Asp	Asp	Phe	Val 450	Glu	Gly	Leu	Ser	Phe 455	Ala	Arg	Ala	Gly	Gly 460
			GCC	GAG	TGT	TTC	TGAT	GTA	CAT	CTG	ragt:	ra G	CTTT	GAGT	:	
	1557 Asn		Ala	Glu	Cys 465	Phe										
20	CTG# 1567	GGT#	CC													
	(2)	INFO	ORMAT	rion	FOR	SEQ	ID i	10: l	B :							
25		((<i>I</i>	A) LI	engti Pe:	CHAI H: 40 amir OGY:	56 ar	nino :id								
						YPE: ESCR			SEQ :	ED NO): 8:	•				
30	Met 1	(xi)	SE(QUEN	CE DI		[PTI(ON:					Leu	Phe	Gly 15	Ser
30	1	(xi)	SE(Phe	Val 5	ESCR	Leu	DN: :	Ser	Ile 10	Ala	Thr			15	
30	1 Thr	(xi) Gly Ser	SE(Val Gly	Phe Thr 20	Val 5 Ala	Val	Leu Gly	DN: :	Ser Arg 25	Ile 10 Gly	Ala Asn	Thr His	Ser	Asp 30	15 Cys	Thr
	1 Thr Ser	(xi) Gly Ser Val	SE(Val Gly Asp 35	Phe Thr 20 Arg	Val 5 Ala Gly	Val Leu	Leu Gly Gln	Leu Pro Cys 40	Ser Arg 25 Phe	Ile 10 Gly Pro	Ala Asn Glu	Thr His Leu	Ser Ser 45	Asp 30 His	15 Cys Lys	Thr
	Thr Ser Gly	(xi) Gly Ser Val Leu 50	SEQ Val Gly Asp 35	Phe Thr 20 Arg	Val 5 Ala Gly Pro	Val Leu Tyr	Leu Gly Gln Phe 55	Pro Cys 40 Ser	Arg 25 Phe Leu	Ile 10 Gly Pro Gln	Ala Asn Glu Asp	Thr His Leu Glu 60	Ser Ser 45 Ser	Asp 30 His	15 Cys Lys Phe	Thr Trp Pro
35	Thr Ser Gly Leu 65	(xi) Gly Ser Val Leu 50	Val Gly Asp 35 Tyr	Phe Thr 20 Arg Ala Pro	Val Val Ala Gly Pro	Val Leu Tyr Tyr Asp	Leu Gly Gln Phe 55	Leu Pro Cys 40 Ser	Ser Arg 25 Phe Leu Ile	Ile 10 Gly Pro Gln Thr	Ala Asn Glu Asp Phe 75	Thr His Leu Glu 60 Val	Ser Ser 45 Ser Gln	Asp 30 His Pro	Lys Phe	Thr Trp Pro
35	Thr Ser Gly Leu 65	(xi) Gly Ser Val Leu 50 Asp	SE(Val) Gly Asp 35 Tyr Val	Phe Thr 20 Arg Ala Pro Ala	Val Val Ala Gly Pro Asp	Val Leu Tyr Tyr Asp	Gly Gln Phe 55 Cys	Leu Pro Cys 40 Ser His	Arg 25 Phe Leu Ile Asp	Ile 10 Gly Pro Gln Thr	Ala Asn Glu Asp Phe 75 Lys	Thr His Leu Glu 60 Val	Ser Ser 45 Ser Gln Lys	Asp 30 His Pro Val	Lys Phe Leu Tyr 95	Thr Trp Pro Ala 80
35	Thr Ser Gly Leu 65 Arg	(xi) Gly Ser Val Leu 50 Asp	Val Gly Asp 35 Tyr Val Gly	Phe Thr 20 Arg Ala Pro Ala Ala 100	Val Val 5 Ala Gly Pro Asp Arg 85	Val Leu Tyr Tyr Asp 70 Ser	Gly Gln Phe 55 Cys Pro Gln	Leu Pro Cys 40 Ser His Thr	Arg 25 Phe Leu Ile Asp	Ile 10 Gly Pro Gln Thr Ser 90 Ala	Ala Asn Glu Asp Phe 75 Lys	Thr His Leu Glu 60 Val Thr	Ser Ser 45 Ser Gln Lys Leu	Asp 30 His Pro Val Ala Pro 110	Lys Phe Leu Tyr 95	Thr Trp Pro Ala 80 Ala Lys
35 40	Thr Ser Gly Leu 65 Arg Ala	(xi) Gly Ser Val Leu 50 Asp His Thr	Val Gly Asp 35 Tyr Val Gly Ile Phe	Phe Thr 20 Arg Ala Pro Ala Ala Leu	Val 5 Ala Gly Pro Asp Arg 85 Ala Lys	Val Leu Tyr Tyr Asp 70 Ser	Leu Gly Gln Phe 55 Cys Pro Gln Tyr	DN: 1 Leu Pro Cys 40 Ser His Thr Lys Asn	Arg 25 Phe Leu Ile Asp Asn 105 Tyr	The 10 Gly Pro Gln Thr Ser 90 Ala Ser	Ala Asn Glu Asp Phe 75 Lys Thr	Thr His Leu Glu 60 Val Thr Ala	Ser Ser 45 Ser Gln Lys Leu Ser	Asp 30 His Pro Val Ala Pro 110 Glu	Lys Phe Leu Tyr 95 Gly Asn	Thr Trp Pro Ala 80 Ala Lys
35 40	Thr Ser Gly Leu 65 Arg Ala Tyr	(xi) Gly Ser Val Leu 50 Asp His Thr Ala Pro	Val Gly Asp 35 Tyr Val Gly Ile Phe 115 Phe	Phe Thr 20 Arg Ala Pro Ala Ala Color	Val 5 Ala Gly Pro Asp Arg 85 Ala Lys	Val Leu Tyr Tyr Asp 70 Ser Ile Ser	Leu Gly Gln Phe 555 Cys Pro Gln Tyr Gln 135	Pro Cys 40 Ser His Thr Lys Asn 120	Arg 25 Phe Leu Ile Asp Asn 105 Tyr	The Ser 90 Ala Ser Asp	Ala Asn Glu Asp Phe 75 Lys Thr Met Leu	Thr His Leu Glu 60 Val Thr Ala Gly Gly	Ser 45 Ser Gln Lys Leu Ser 125	Asp 30 His Pro Val Ala Pro 110 Glu	Lys Lys Phe Leu Tyr 95 Gly Asn	Thr Trp Pro Ala 80 Ala Lys Leu

					165					170					175	
5	Phe	Gln	Asn	Ala 180	Arg	Gln	Gly	Asp	Pro 185	His	Ala	Asn	Pro	His 190	Gln	Pro
	Ser	Pro	Arg 195	Val	qeA	Val	Val	Ile 200	Pro	Glu	Gly	Thr	Ala 205	Tyr	Asn	Asn
10	Thr	Leu 210	Glu	His	Ser	Ile	Cys 215	Thr	Ala	Phe	Glu	Ala 220	Ser	Thr	Val	Gly
	Asp 225	Ala	Ala	Ala	Asp	Asn 230	Phe	Thr	Ala	Val	Phe 235	Ala	Pro	Ala	Ile	Ala 240
15	Lys	Arg	Leu	Glu	Ala 245	Asp	Leu	Pro	Gly	Val 250	Gln	Leu	Ser	Ala	Asp 255	Asp
	Val	Val	Asn	Leu 260	Met	Ala	Met	Cys	Pro 265	Phe	Glu	Thr	Val	Ser 270	Leu	Thr
20	Asp	Asp	Ala 275	His	Thr	Leu	Ser	Pro 280	Phe	Cys	Asp	Leu	Phe 285	Thr	Ala	Ala
	Glu	Trp 290	Thr	Gln	Tyr	Asn	Tyr 295	Leu	Leu	Ser	Leu	Asp 300	Lys	Tyr	Tyr	Gly
25	Tyr 305	Gly	Gly	Gly	Asn	Pro 310	Leu	Gly	Pro	Val	Gln 315	Gly	Val	Gly	Trp	Ala 320
	Asn	Glu	Leu	Ile	Ala 325	Arg	Leu	Thr	Arg	Ser 330	Pro	Val	His	Asp	His 335	Thr
<i>30</i>	Суѕ	Val	Asn	Asn 340	Thr	Leu	Asp	Ala	Asn 345	Pro	Ala	Thr	Phe	Pro 350	Leu	Asn
	Ala	Thr	Leu 355	Tyr	Ala	Asp	Phe	Ser 360	His	Asp	Ser	Asn	Leu 365	Val	Ser	Ile
35	Phe	Trp 370	Ala	Leu	Gly	Leu	Tyr 375	Asn	Gly	Thr	Lys	Pro 380	Leu	Ser	Gln	Thr
	Thr 385	Val	Glu	Asp	Ile	Thr 390	Arg	Thr	Asp	Gly	Tyr 395	Ala	Ala	Ala	Trp	Thr 400
40	Val	Pro	Phe	Ala	Ala 405	Arg	Ala	Tyr	Ile	Glu 410	Met	Met	Gln	Cys	Arg 415	Ala
	Glu	Lys	Gln	Pro 420	Leu	Val	Arg	Val	Leu 425	Val	Asn	Asp	Arg	Val 430	Met	Pro
45	Leu	His	Gly 435	Cys	Ala	Val	Asp	Asn 440	Leu	Gly	Arg	СЛа	Lys 445	Arg	Asp	Asp
	Phe	Val 450	Glu	Gly	Leu	Ser	Phe 455	Ala	Arg	Ala	Gly	Gly 460	Asn	Trp	Ala	Glu
50	Cys 465	Phe														

Claims

1. A process for the production of a modified phytase with improved activity properties characterized therein that the

following steps are effected:

5

10

15

25

- a) the three dimensional structur of the phytase to be modified and, optionally of another phytase with activity
 properties which are more favorable than the ones of the phytase to be modified is/are computer modelled on
 the basis of the three dimensional structure of the phytase of Aspergillus niger;
- b) the structure of the active sites of the phytase to be modified and of the phytase with the more favorable activity properties are compared and those amino acid residues in both active sites which are different are identified;
- c) a DNA sequence coding for a modified phytase is constructed by changing the nucleotides coding for at least one of the amino acids by which both active sites differ;
- d) integrating such a DNA sequence into a vector capable of expression in a suitable host cell;
- e) transforming a suitable host cell by the DNA sequence of c) or the vector of d), growing said host cell under suitable growth conditions and isolating the modified phytase from the host cell or the culture medium by methods known in the state of the art.
- 20 2. A process as claimed in claim 1 wherein the phytase to be modified is of eukaryotic origin.
 - 3. A process as claimed in claim 1 or 2 wherein the phytase to be modified is of fungal origin.
 - 4. A process as claimed in any one of claims 1 to 3 wherein the phytase to be modified is of Aspergillus origin.
 - 5. A process as claimed in any one of claims 1 to 4 wherein the phytase to be modified is a phytase from Aspergillus furnigatus.
- 6. A process as claimed in any one of claims 1 to 5 wherein the phytase with the more favorable activity properties is of eukaryotic origin.
 - 7. A process as claimed in any one of claim 1 to 6 wherein the phytase with the more favorable activity properties is of fungal origin.
- 35 8. A process claimed in any one of claims 1 to 7 wherein the phytase with the more favorable activity properties is of Aspergillus origin.
 - 9. A process as claimed in any one of claims 1 to 8 wherein the phytase with the more favorable activity properties is a phytase from Aspergillus terreus.
 - 10. A process as claimed in any one of claims 1 to 9 wherein the phytase to be modified is a phytase of Aspergillus fumigatus and the phytase with the more favorable activity properties is the Aspergillus niger phytase.
- 11. A process as claimed in any one of claims 1 to 9 wherein the phytase to be modified is a phytase of Aspergillus fumigatus and the phytase with the more favorable activity properties is the Aspergillus terreus phytase.
 - 12. A modified phytase obtained or obtainable by a process as claimed in any one of claims 1 to 11.
- 13. A phytase which has been modified in a way that its activity property is more favorable than the one of the non-modified phytase.
 - 14. A phytase according to claim 13 characterized therein that the amino acid sequence of the non-modified phytase has been changed by deletion, substitution and/or addition by one or more amino acids.
- 15. A phytase according to any one of claims 13 or 14 wherein changes have been made at at least one position which is homologous to one of the following positions of the amino acid sequence of the phytase of Aspergillus niger: 27, 66, 71, 103, 140, 141, 188, 205, 234, 235, 238, 274, 277, 282, 340 and/or 424, preferably 27, 66, 140, 205, 274, 277, 282 and/or 340.

- 16. A phytase according to any one of claims 13 to 15 which is the phytase of Aspergillus, preferably Aspergillus furnigatus.
- 17. A phytase according to any one of claims 15 or 16 wherein at position 27 or at least at position 27 a change occurs.
- 18. A phytase according to claim 17 wherein the amino acid at position 27 is replaced by one selected from one of the following groups:
 - a) Ala, Val, Leu, Ile; or
 - b) Thr.

10

35

40

45

50

- 19. A phytase according to claim 17 or 18 wherein in addition to position 27 a change occurs also at position 66.
- 15 20. A phytase according to claim 17 or 18 wherein in addition to position 27 a change occurs also at position 140.
 - A phytase according to any one of claims 13 to 20 which is characterized by at least one of the following mutations: Q27L, Q27N, Q27T, Q27I, Q27V, Q27A, Q27G, S66D, S140Y, D141G, A205E, Q274L, G277D, G277K, Y282H and/or N340S.
 - 22. A DNA sequence comprising a DNA sequence coding for a phytase as claimed in any one of claims 12 to 21.
 - 23. A vector comprising the DNA sequence of claim 22.
- 25 24. The vector of claim 23 which is an expression vector.
 - 25. A host cell which has been transformed by a DNA sequence as claimed in claim 22 or the vector of claim 23 or 24.
- 26. A process for the preparation of a phytase as claimed in any one of claims 12 to 21 wherein the host cell as claimed in claim 25 is cultured under suitable culture conditions and the phytase is isolated from such host cells or the culture medium by methods known in the art.
 - 27. A food or feed composition comprising a phytase as claimed in any one of claims 12 to 21.

250 245 245

300 295 295

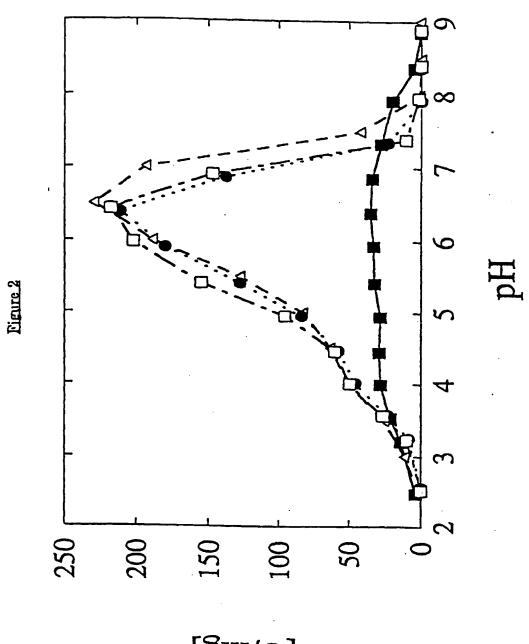
200 195 195

100 96 95 350 345 345

400 395 395

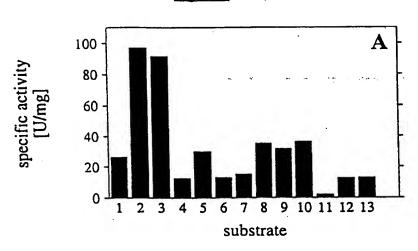
La Carrent State

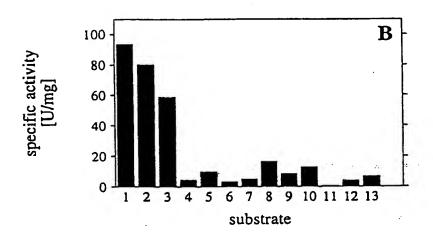
NGI MS ILFALG NSMVSIFFALG SNLVSIFFALG 교교 E SO C DMCSEDTWSTST DMCSEDTVARTS AMCPFFATVSLTD SYNYTS SGKK 1 C C C □ M O H មាចជ THE D S ZZZ OAEQEPI KSEKEPI RAFFKOFI ATA Q G V G Y V Q G E V C W C W C W A X O 4 4 6 ۵، ۵، ۵. 🗘 ևս ևս ևս SSRVI SDVII SSRVII > 🗐 > 14 14 14 > × 4 K S لتا إندا إندا 40.4 tar far ta 000 VENMOCO FETMOCK IEMMOCK S N N T L D P G T C 6 8 4 A B O O H 4 > 回回區 OFSHDNG TDFSHDNG < 0 4 FIRASGS DVVSEMDR > 02 04 BEE N D C D D L N L N OZZ <u>၁</u>၀ င OXP liq factors 7 P F A S R L Y V 7 P F G A R A Y F 7 P F A B A R T I 4 11 0 HOK S C A O D N S T D Y A D O L N A T 图 Y V D O L N A T L Y A D NAT NATE 0 0 4 60 6 $\alpha \alpha x$ 1 d N L S SS SS ARA GVTLTDT: GVTLTDED SOYAPEFS SOYSPFS LYAPINES SHK 1. S F 1. S F 1. S F OKX တ ဆာ 🗗 ынн 000 ZOZ 4 W D 1111 PP-PRR CTDGWSSAWTVP ELDGYSASWVVP RTDGYAARTVF O XXX E A A 民队区 ANY DOSLOKK KYNYLOSLOK KYNYLOSLOK YNYLOSLOK I D V V I I S V 開 I BHK உடிக LOSSPATEP LVSMPATEP LOAMPATEP 7 1 X 8 8 8 0 0 0 SAF REENDLSORRERER 医苯口 R D S **8 8 8** 8 2 2 2 2 OCFSTSI OCSPATSI OCFPELSI Ε Φ<u>ΙΣ</u>ΙΑΝ S G I ΚΕΥ Ω Ε Φ Φ ΙΑΝ S G I ΚΕΥ Φ R N Φ L ΦΙΦΙ L G A Φ ΕΥ R O O O X A K G I S S P H N R A A P J L L C G R R R R ZXO OKX [-- [-- [--O 23 K HXE A 55 R A X 822 HOZ ANZ O · N 0 A 222 வ ப ம SCDTVDQGYQ SCDTVDLGYQ CTSVDRGYQ S S S S T S OZK ᄝᄱᄑ SOA H G B V A A A P P F T H F T H A H > > > B E E HOA N - K RHGARY RHGARY Р V Н D D 1 Р V <mark>Q</mark> D Н 7 Р V Н С Н 7 عر مر م ie. ie. ie. **⊞** ⊗ **∈** 000 FCDLE FCOLE F K O 000 ルエよ T II I XAU GTFPLST GTEPLSE ្រ ទ מיםים R V V В V V В V V S & W (1) A A O S & € O. D. D. ۵. ۵. ۵. N 53 K 1 A A A <u>e</u> 31. (1). A D D L 444 <u>a</u>v. X . . MOH TEA TEV KKKK. HOE V D A **⊙ 0** 0 0 0 **ω** · · C 4 4 ပ ပ ပ > A > æ Anigmature Afummature Aterrcbsmature Anigmature Afummature Aterrobsmature Anigmature Afummature Aterrcbsmature Anigmature Afummature Aterrchsmature



specific activity
[U/mg]

Figure 3





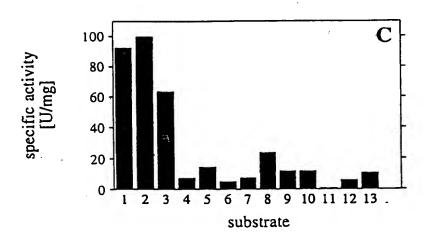


Figure 4/1

I	TCTGTAACCGATAGCGACCGACTAGGCATCGTTGATCCACAATATCTCA	50
51	GACAATGCAACTCAGTCGAATATGAAGGGCTACAGCCAGC	100
LOI	GGCCGTCTAGGTCGGGGTCCGGGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	150
LS1	TTCGGTCATGGCTTTTTCACGGTCGCTCTTTCGCTTATTACTTGCTAT M A F F T V A L S L Y Y L L S	200 15
201	CGACGEGAGAECECEACAACACEGECEGCEEAGEEGAAEEGGCACEEAE R	250 16
251	CEGEACAGAGTCTCTGCTCAGGCCCCAGTGGTCCAGAATCATTCAT	300
301	TACGGCGGACGGTGGATATCAATGCTTCCCCAATGTCTCTCATGTTTGCG T A D G G Y Q C F P N V S H V W G	350 4 7
351	GTCAGTACTCGCCGTACTTCTCCATCGAGCAGGAGTCAGCTATCTCTGAG Q Y S P Y F S I E Q E S A I S E	400 63
401	GACGTGCCTCATGGCTGTGAGGTTACCTTTGTGCAGGTGCTCTCGCGGCA D V P H G C E V T F V Q V L S R H	450 80
451	TGGGGCTAGGTATCCGACAGAGTCGAAGAGTAAGGCGTACTCGGGGTTGA G A R Y P T E S K S K A Y S G L I	500 97
501	TTGAAGCAATCCAGAAGAATGCTACCTCTTTTTGGGGACAGTATGCTTTT E A I Q K N A T S F W G Q Y A F	550 113
551	CTGGAGAGTTATAACTATACCCTCGGCGCGGATGACTTGACTATCTTCGG L E S Y N Y T L G A D D L T I F G	600 130
601	CGAGAACCAGATGGTTGATTCGGGTGCCAAGTTCTACCGACGGTATAAGA ENQMVDSGAKFYRRYKN	650 147
	ATCTCGCCAGGAAAAATACTCCTTTTATCCGTGCATCAGGGTCTGACCGT	700 153

Figure 4/2

701	GTCGTTGCGTCTGCGGAGAGTTCATTAATGGATTTCGCAAGGCTCAGCT V V A S A E K F I N G F R K A Q L	750
	V V A S A E K F I N G F R K A Q L	180
	CCACGACCATGGCTCCAAACGTGCTACGCCAGTTGTCAATGTGATTATCC	000
131	H D H G S K R A T P V V N V I I P	
	RURUSKRAIPVVNVIIP	731
801	CTGAAATCGATGGGTTTAACAACACCCTGGACCATAGCACGTGCGTATCT	850
	EIDGFNNTLDHSTCVS	213
851	TTTGAGAATGATGAGCGCGGATGAAATTGAAGCCAATTTCACGGCAAT	900
	FENDERADEIEANFTAI	230
901	TATGGGACCTCCGATCCGCAAACGTCTGGAAAATGACCTCCCTGGCATCA	950
	M G P P I R K R L E N D L P G I K	247
951	AACTTACAAACGAGAATGTAATATATTTGATGGATATGTGCTCTTTCGAC	1000
	LTNENVIYLMDMCSFD	
	•	
1001	ACCATGGCGCGCACCGCACCGAACCGAGCTGTCTCCATTTTGTGCCAT	1050
1001	T M A R T A H G T E L S P F C A I	280
1051	CTTCACTGAAAAGGAGTGGCTGCAGTACGACTACCTTCAATCTCTATCAA	1100
1031	FTEKEWLQYDYLQSLSK	
	AGTACTACGGCTACGGTGCCGGAAGCCCCCTTGGCCCAGCTCAGGGAATT	1150
TIUL	Y Y G Y G A G S P L G P A Q G I	
		343
	• • • • • • •	
1151	GGCTTCACCAACGAGCTGATTGCCCGACTAACGCAATCGCCCGTTCCACGA	
	G F T N E L I A R L T Q S P V Q D	330
1201	CAACACAGCACCAACCACACTCTAGACTCGAACCCAGCCACATTTCCGC	1250
	NTSTNHTLDSNPATFPL	347
1251	TCGACAGGAAGCTCTACGCCGACTTCTCCCACGACAATAGCATGATATCG	1300
	DRKLYADFS HDN SMLEIS	353
1301	ATATTCTTCGCCATGGGTCTGTACAACGGCACCCAGCCGGCTGTCAATGGA	
	IFFAMGLYNGTQPLSMD	380

Figure 4/3

1351	TTCCGTGGAGTCGATCCAGGAGATGGACGGTTACGCGGCGTCTTGGACTG S V E S I Q E M D G Y A A S W T V	1400 397
L401	TTCCGTTTGGTGCGAGGGCTTACTTTGAGCTCATGCAGTGCGAGAAGAAG	1450 413
L451	GAGCCGCTTGTGCGGGTATTAGTGAATGATCGCGTTGTTCCTCTTCATGG E P L V R V L V N D R V V P L H G	1500 430
L501	CTGCGCAGTTGACAAGTTTGGACGGTGCACTTTGGACGATTGGGTAGACG C A V D K F G R C T L D D W V E G	1550 447
1551	GCTTGAATTTTGCAAGGAGGGGGGGGGAACTGGAAGACTTGTTTTACCCTA L N F A R S G G N W K T C F T L	1600 463
1601	TAAAGGGCGTTTGCTCATTCATAAGTGTTGTGCAGGTATAGGAAGGTTAG	1650
1651	GGAATTAGCTGTTTGGCTTTACTCTTATTAGACCAAGAATGATTTGTTTG	1700
1701	TTCTCAAGGCCTTCTAGCATATCGTCAAGTGGGATAAATCACCTATCCTC	1750
1751	CATGTGTAGGTGAACCCGCTCTTGCATCAACCTCTTGTGTTTCAGAGTAG	1800
1801	TTTCACCAAACATATCCTCGTGTCCTCTCTTCTGCTCTTCGGTCTCATAT	1850
1851	TACACTGTTCTCTATCTATATCGTCAACAAACTACCACCCAAACACCAA	1900
1901	ATGTCACACTTTCCAGCACGAAATTTCTTCG 1931	

Figure 5/1

1	TTCCACGCTGAAAGCCTGACTGCGATTTCCAAGCTGCATGCA	50
51	AACTGCCTGCTTATCTTCATCAGACGCAGATACACAACCTGGTCTGTAGA	100
.01	TGCACCCATGACGGACGGACCGCTCTCTTGGCCTCCAGGGACCCGG	150
L51	AGGTCGAGGGGGATGAGGTCGCGCCCTCGACGGCCTCCCAGTCCCTGTTG	200
201	CAGTTGAGATCTCGCTGCGAACGTCGACCGCAGATATGGTTGTCTTCGAC	250
251	GTTTCTCCCCTTCGAGGAAGAATTGCTGCTGTGACGATGAGTCTGTTGT	300
	M S L L L	5
301	TGCTGGTGCTGTCCGGCGGGTTGGTCGCGTTATAgtatgctccttctctc L V L S G G L V A L Y	.350 16
351	tgg:catattgttttttqctaacgttctcataattgaagTGTCTCAAGAA V S R N	400 20
401	ATCCGCATGTTGATACCCACTCTTGCAATACAGTGGAAGGAGGGTATCAG P H V D S H S C N T V E G G Y Q	450 36
451	TGTCGTCCAGAAATCTCCCACTCCTGGGGCCAGTATTCTCCATTCTTCTC	500 53
501	CCTGGCAGACCAGTCGGGAGATCTCGCCAGATGTCCCACAGAACTGCAAGA L A D Q S E I S P D V P Q N C K I	550 70
551	TTACGTTTGTCCAGCTGCTTTCTCGTCACGGCGCTAGATACCCTACGTCT T F V Q L L S R H G A R Y P T S	600 86
601	TCCAAGACGGAGCTGTATTCGCAGCTGATCAGTCAGTTCAGAAGACGGC S K T E L Y S Q L I S R I Q K T A	650 103
651	GACTGCGTACAAAGGCTACTATGCCTTCTTGAAAGACTACAGATACCAGC T A Y K G Y Y A F L K D Y R Y Q L	
701	TGGGAGCGAACGACCTGACGCCCTTTGGGGAAAACCAGATGATCCAGTTG G A N D L T P F G E N Q M I Q L	750 136

Figure 5/2

751	GGCATCAAGTTTTATAACCATTACAAGAGTCTCGCCAGGAATGCCGTCCC	800
	GIKFYNHYKSLARNAVP	153
801	ATTCGTTCGTTGCTCCGGCTCTGATCGGGTCATTGCCTCGGGGAGACTTT	850
	F V R C S G S D R V I A S G R L F	170
851	TCATCGAAGGTTTCCAGAGCGCCAAAGTGCTGGATCCTCATTCAGACAAG	900
	IEGFQSAKVLDFHSDK	186
		•
901	CATGACGCTCCTCCCACGATCAACGTGATCATCGAGGAGGGTCCGTCC	950
	HDAPPTINVIIEEGPSY	203
951	CAATAACACGCTCGACACCCGCAGCTGTCCAGTCTTTGAGGACAGCAGCG	1000
	N N T L D T G S C P V F E D S S G	220
	•	
	•	
.001	GGGGACATGACGCACAGGAAAAGTTCGCAAGCAATTCGCACCAGCTATC	1050
	GHDAQEKFAKQFAPAI	236
051	CTGGAAAAGATCAAGGACCATCTTCCCGGGGTGGACCTGGCCGTGTCGGA	
1031	L E K I K D H L P G V D L A V S D	1100
		453
101	TGTACCGTACTTGATCGACTTGTGCCGTTTGAGACCTTGGCTCGCAACC	1150
	V P Y L M O L C P F E T L A R N H	270
	•	
1151	ACACAGACACGCTGTCTCCGTTCTGCGCTCTTTCCACGCAAGAGGAGTGG	1200
	TOTLSPFCALSTQEEW	286
1201	<u>CAAGCATATGACTACTACCAAAGTCTGGGGAAATAC</u> TATGGCAATGGCGG	1250
	Q A Y D Y Y Q S L G K Y Y G N G G	303
	• • • •	
1251	GGGTAACCCGTTGGGGCCAGCCCAAGGCGTGGGGTTTGTCAACGAGTTGA	
	G N P L G P A Q G V G F V N E L I	320
	, , , , , , , , , , , , , , , , , , , ,	
TIGE	TTGCTCGCATGACCCATAGCCCTGTCCAGGACTACACCACGGTCAACCAC	1320
	ARMIKSPVQDYTTVNH	115
	*	
1251	ACTOTTOACTOGAATCCGGCGACATTCCCTTTGAACGCGACGCTGTACGC	1400
-334	T L D S N P A T F P L N A T L Y A	

Figure 5/3

1401	AGATTTCAGCCACGACAACACAATGACGTCAATTTTCGCGGCCTTGGGCC D F S H D N T M T S I F A A L G L	1450
1451	TOTACAACGGGACCGCGAAGCTGTCCACGACCGAGATCAAGTCCATTGAA	1500
	YNGTAKLSTTEIKSIE +	386
1501	GAGACGGACGGCTACTCGGCGGCGTGGACCGTTCCGTTC	1550
	ETDGYSAAWTVPFGGRA	403
1551	CTATATCGAGATGATGCAGTGATGATTCGGATGAGCCAGTCGTTCGGG Y I E M M O C D D S D E P V V R V	1500 420
	• • • • • • • • • • • • • • • • • • • •	
1601	TGCTGGTCAACGACCGGGTGGTGCCACTGCATGGCTGCGAGGTGGACTCC	1650
	LVNDRVVPLHGCEVDS	4,36
1651	CTGGGGGATGCAAACGAGACGACTTTGTCAGGGGACTGAGTTTTGCGCG	1700
	LGRCKRDDFVRGLSFAR	453
	•	
1701	ACAGGGTGGGAACTGGGAGGGGTGTTACGCTGCTTCTGAGTAGGTTTATT	1750
	Q G G N W E G C Y A A S E .	466
1751	CAGCGAGTTTCGACCTTTCTATCCTTCAAACACTGCACAAAGACACACTG	1800
	CATGAAATGGTAACAGGCCTGGAGCGTTTTAGAACGAAAAAGTT	1045
1501	CHIGHNAIGH INNCHIGH CHAICH I LEALANGANAAN LI	1845

Figure 6/1

1	AGATTCAACGACGGAGGAATCGCAACCCTAATTGTCGGTATCATGGTGAC M V T	50 3
51	TCTGACTTTCCTGCTTTCCGCCGCGTATCTGCTTTCTGGgtgagtggctt L T F L L S A A Y L L S G	100 16
.01	ggatctattgctcggatagggctgtggtgctgattctgaaacggagTAGA R	150 17
.51	GTGTCTGCGGCACCTAGTTCTGCTGGCTCCAAGTCCTGCGATACGGTAGA V S A A P S S A G S K S C D T V D	200 34
101	CCTCCGGTACCAGTGCTCCCCTGCGACTTCTCATCTATGGGGCCAGTACT L G Y Q C S P A T S H L W G Q Y S	250 51
251	CGCCATTCTTTTCGCTCGAGGACGAGCTGTCCGTGTCGAGTAAGCTTCCC P F F S L E D E L S V S S K L P	300 67
301	AAGGATTGCCGGATCACCTTGGTACAGGTGCTATCGCGCCATGGAGCGCG K D C R I T L V Q V L S R H G A R	350 64
351	GTACCCAACCAGCTCCAAGAGCAAAAAGTATAAGAAGCTTGTGACGGCGA Y P T S S K S K K Y K K L V T A I	400 101
401	TCCAGGCCAATGCCACCGACTTCAAGGGCAAGTTTGCCTTTTTGAAGACG Q A N A T D F K G K F A F L K T	450 117
451	TACAACTATACTCTGGGTGCGGATGACCTCACTCCCTTTGGGGAGCAGCA Y N Y T L G A D D L T P F G E Q Q	500 134
501	GCTGGTGAACTCGGGGCATCAAGTTCTACCAGAGGTACAAGGCTCTGGCGC L V N S G I K F Y Q R Y K A L A R	
551	GCAGTGTGGTGCCGTTTATTCGCGCCCTCAGGCTCGGACCGGGTTATTGCT S V V P F I R A S G S D R V I A	

Figure 6/2

601	TCGGGAGAGAAGTTCATCGAGGGGTTCCAGCAGGCGAAGCTGGCTG	650
	SGEKFIEGFQQAKLADP	184
		•
651	TGGCGCGACGAACCGCGCCGCCGCCGATTAGTGTGATTATTCCGGAGA	
	G A T N R A A P A I S V I I P E S	201
701	GCGAGACGTTCAACAATACGCTGGACCACGGTGTGTGCACGAAGTTTGAG	750
701	E T F N N T L D H G V C T K F E	
	• •	
751	GCGAGTCAGCTGGGAGATGAGGTTGCGGCCAATTTCACTGCGCTCTTTGC	800
	ASQLGDEVAANFTALFA	234
	÷	
801	ACCCGACATCCGAGCTCGCGCGGAGAAGCATCTTCCTGGCGTGACGCTGA	850
	PDIRARAEKHLPGVTLT	
851	CAGACGAGGACGITGTCAGTCTAATGGACATGTGTTCGTTTGATACGGTA D E D V V S L M D M C S F D T V	900
	DEDVVSLMDMCSFDTV	257
901	GCGCGCACCAGCGACGCAAGTCAGCTGTCACCGTTCTGTCAACTCTTCAC	950
	CCCCCACCACCAACTCACCTGTCACCGTTCTCTCAACTCTTCAC A R T S D A S Q L S P F C Q L F T	284
751	TCACAATGAGTGGAAGAAGTACAACTACCTTCAGTCCTTGGGCAAGTACT H N E W K K Y N Y L Q S L G K Y Y	301
		301
	• • • • •	
1001	ACGGCTACGGCGCAGGCAACCCTCTGGGACCGGCTCAGGGGATAGGGTTC	
	GYGAGN & LG P A Q G I G F	317
1051	ACCAACGAGCTGATTGCCCGGTTGACTCGTTCGCCAGTGCAGGACCACAC	1100
	TNELIARLTRSPVQDHT	
	•	
1101	CAGCACTAACTCGACTCTAGTCTCCAACCCGGCCACCTTCCCGTTGAACG	
	STNSTLVSNPATFPLNA	351
	*	
1151	CTACCATGTACGTCGACTTTTCACACGACAACAGCATGGTTTCCATCTTC	1200
	TMYVDFSHDNSMVSIF	357
•		
LZGI	TTTGCATTGGGCCTGTACAACGGCACTGAACCCTTGTCCCGGACCTCGGT	1250

Figure 6/3

.251	GGAAAGCGCCAAGGAATTGGATGGGTATTCTGCATCCTGGTGGTGCCTT E S A K E L D G Y S A S W V V P F	1300
		401
.301	TCGGCGCGCGAGCCTACTTCGAGACGATGCAATGCAAGTCGGAAAAGGAG G A R A Y F E T M Q C K S E K E	1350 417
1351	CCTCTTGTTCGCGCTTTGATTAATGACCGGGTTGTGCCACTGCATGCCTG	1400
.,,,	PLVRALINDRVVPLHGC	434
L401	CGATGTGGACAAGCTGGGGGGGATGCAAGCTGAATGACTTTGTCAAGGGAT D V D K L G R C K L N D F V K G L	1450 451
L451	TGAGTTGGGCCAGATCTGGGGGAGAGTGCTTTAGTTGAGAT S W A R S G G N W G E C F S	1500 465
1501	GTCATTGTTATGCTATACTCCAATAGACCGTTGCTTAGCCATTCACTTCA	1550
1551	CTTTCCTCGAACCGCCTGCCG	1571

Figure 7/1

1	ACGTCCCAGGTCGGGGACTACATCCGCTATGTGGTCCTCTACTTCGTCGG	50
•	V68:44#	-
C 1	AAGAATATACTGTCTCTTGTGGCTACCATGGGGGTTTTCGTCGTTCTATT	100
31		
	MGVFVVLL	8
	• • • • • •	
.01	ATCTATCGCGACTCTGTTCGGCAGgtatgtgcaccgctctaggttcaact	150
	SIATLFGS	16
	•	
151	CGCCCGGCACTGCGCCCCCCCCCCCCCCCCCCCCCCCCC	200
	TSGTALGP	24
	•	
201	CCGTGGAAATCACAGCGACTGCACCTCAGTCGACCGGGGGTATCAATGCT	750
.0.	R G N H S D C T S V D R G Y O C F	41
	ROURSDCISVDRGIQCE	41
	•	
251	TCCCTGAGCTCTCCCATAAATGGGGTCTCTACGGGGCCCTATTTCTCCCTC	
	PELSHKWGLYAPYFSL	57
301	CAGGATGAATCTCCGTTTCCTCTGGACGTCCCGGATGACTGCCACATCAC	350
	Q D E S P F P L D V P D D C K I T	74
351	CTTTGTGCAGGTGCTGGCCCGACATGGAGCGCGGTCTCCAACCGATAGCA	400
	F V Q V L A R H G A R S P T D S K	91
	•••	
401	AGACAAAGGCGTATGCCGCGACTATTGCAGCCATCCAGAAGAATGCCACC	450
101	T K A Y A A T I A A I Q K N A T	107
	I W V I V V I I V V I V V I	10,
	•	
451	GCGTTGCCGGCAAATACGCCTTCCTGAAGTCGTACAATTACTCCATGGG	
	A L P G K Y A F L K S Y N Y S M G	124
	•	
501	CTCCGAGAACCTGAACCCCTTCGGGCGGAACCAACTGCAAGATCTGGGCG	550
	S E N L N P F G R N Q L Q D L G A	141
551	CCCAGTTCTACCGTCGCTACGACACCCTCACCCGGCACATCAACCCTTTC	600
	Q F Y R R Y D T L T R H I N 9 F	157
	A true to the true to te	,
	, , , , , , , , , , , , , , , , , , , ,	
901	GTCCGGGCCGGGATTCCTGCCGCGTCCACGAATCAGCCGAGAAGTTCGT	
	V R A A D S S R V H E S A E K F V	174

Figure 7/2

651	CGAGGGCTTCCAAAACGCCCGCCAAGGCGATCCTCACCCTCACC E G F Q N A R Q G D P H A N P H Q	700 191
701	AGCCGTCGCCGCGCGGATGTAGTCATCCCCGAAGGCACCGCCTACAAC PSPRVDVVIPEGTAYN	750 207
751	AACACGCTCGAGCACAGCATCTGCACCGCCTTCGAGGCCAGCACCGTCGG	
801	CGACGCCGCGCAGACAACTTCACTGCCGTGTTCGCGCCGGCGATCGCCA D A A A D N F T A V F A P A I A K	
851	AGCGTCTGGAGGCCGATCTGCCCGGCGTGCAGCTGTCCGCCGACGACGTG R L E A D L P G V Q L S A D D V	900 257
901	GTCAATCTGATGGCCATGTGTCCGTTCGAGGACGGTCAGCCTGACCGACGA	950 274
951	CGCGCACACGCTGTCGCCGTTCTGCGACCTCTTCACCGCCGCCGAGTGGA A H T L S P F C D L F T A A E W T	1000 291
.001	CGCAGTACAACTACCTGCTCTCGCTGGACAAGTACTACGGCTACGGCGGC Q Y N Y L L S L D K Y Y G Y G G	1050 307
.051	GGCAATCCGCTGGGCCCCGTGCAGGGGCTGGGCTGGCCGAACGAGCTGAT G N P L G P V Q G V G W A N E L I	1100 324
1101	CGCGGGGGGGGGGGGCGCGGGGGGGGGGGGGGGGGGGG	
1151	CCCTCGACGCCAACCCGGCCACCTTCCCGCTGAACGCCACCCTCTACGCG	
1201	GACTITICGCACGACAGTAACCTGGTGTGGATCTTCTGGGGGGTGGGT	

Figure 7/3

1251	GTACAACGGCACCAAGCCCCTGTCGCAGACCACCGTGGAGGATATCACCC	1300
	YNGTKPLSQTTVEDITR	391
1301	CGACCGACGGTACGCGGCCGCCTTGACGGTTTGCCGGCCG	1350
	TDGYAAAWTVPFAAARA	407
1351	TACATCGAGATGATGCAGTGTCGCGCGGAGAAGCAGCCGCTGGTGCGCGT	1400
	YIEMMQCRAEKQPLVRV	424
1401	GCTGGTCAACGACCGTGTCATGCCGCTGCACGGCTGCGCGGTGGATAATC	1450
	LVNDRVMPLKGCAVDNL	441
	TGGGCAGGTGTAAACGGGACGACTTTGTGGAGGGACTGAGCTTTGCGCGG	1500
1451		
	GRCKRDDFVEGLSFAR	457
	• • • • •	
1501	GCAGGAGGGAACTGGGCCGAGTGTTTCTGATGTACATGCTGTAGTTAGCT	1550
	AGGNWAECF *	456
	•	
1551	TTGAGTCCTGAGGTACC	1567

```
HEADER
                              Phosphomonoesterase
                                                                                                                                                                                                                           1DIK
                             Phytase (E.C.3.1.3.8) (Aspergillus ficuum)
                                                                                                                                                                                                                            1DIK
1DIK
COMPND
                                                                                                                                                                                                                            1DIK
                          2 RESOLUTION. 2.5 ANGSTROMS.
REMARK
                                                                                                                                                                                                                            IDIX
1DIK
REMARK
REMARK
                                REFINEMENT.
                                                                                                                                                                                                                            IDIK
                                                                                                                         X-PLOR
REMARK
                                     PROGRAM
                                                                                                                                                                                                                             IDIK
                                       AUTHORS
REMARK
                                                                                                                          BRUENGER. A.T.
                                                                                                                                                                                                                            1DTK
REMARK
                                      R VALUE
                                                                                                                                                                                                                             1DIK
                                      FREE R VALUE
RMSD BOND DISTANCES
RMSD BOND ANGLES
REMARK
                                                                                                                                                                                                                             10IK
REMARK
                                                                                                                         0.009
                                                                                                                                              ANGSTROMS
                                                                                                                                                                                                                            1DIK
 REMARK
                                                                                                                         1.5
                                                                                                                                              DEGREES
                                                                                                                                                                                                                             LDIK
REMARK
                                                                                                                                                                                                                            1DIK
                                      NUMBER OF REFLECTIONS
REMARK
                                                                                                                        17206
                                                                                                                                                                                                                            1DIK
1DIK
                                      RESOLUTION RANGE
                                                                                                 20.0
                                                                                                                        - 2.5
0.
                                                                                                                                              ANGSTROMS
REMARK
                                                                                                                                               SIGMA (P)
                                                                                                                                                                                                                             IDIK
 REMARK
                                                                                                                                                                                                                             1DIK
                                      NUMBER OF PROTEIN ATOMS
NUMBER OF SOLVENT ATOMS
NUMBER OF SULFATE ATOMS
REMARK
                                                                                                                                                                                    3369
                                                                                                                                                                                                                            1DIK
                                                                                                                                                                                                                                             20
                          3
REMARK
                                                                                                                                                                                                                             1DIK
REMARK
                                                                                                                                                                                                                            1DIK
REMARK
                          3
 REMARK
                                     CONVENTIONAL RESTRAINED POSITIONAL AND TEMPERATURE FACTOR
                                                                                                                                                                                                                            1DIK
REMARK
                                                                                                                                                                                                                           1DIK
1DIK
                                   REFINEMENT.
 REMARK
                                    THE STEREOCHEMICAL PARAMETERS FROM ENGH & HUBER WERE USED.
REMARK
                                                                                                                                                                                                                             IDIK
 REMARK
                                                                                                                                                                                                                                             42
                                THE ASYMMETRIC UNIT OF THE CRYSTAL CONTAINS OF ONE DEGLYCOSYLATED PROTEIN MONOMER.
 REMARK
                              DEGLYCOSYLATED PROTEIN MONOMER.

THE AMINO ACIDS 249 - 252 ARE COMPLETELY DISORDERED.

THE FOLLOWING AMINO ACID SIDE CHAINS ARE DISORDERED:

GLU 43, LYS 70, GLU 77, GLN 81, LYS 94, GLN 392, GLN 395, ARG 428

THE ELECTRON DENSITY OF THE SULFATE IS NOT WELL DEFINED.

414 SER CYS ASP THR VAL ASP GLN GLY TYR GLN CYS PHE SER 414 GLU THR SER HIS LEU TRP GLY GLN TYR ALA PRO PHE PHE 434 SER LEU ALA ASN GLU SER VAL ILE SER PRO GLU VAL PRO 414 ALA GLY CYS ARG VAL THR PHE ALA GLN VAL LEU SER ARG 434 HIS GLY ALA ARG TYR PRO THR ASP SER LYS GLY LYS LYS 414 TYR SER ALA LEU ILE GLU GLU ILE GLU GLU GLU SER ARG 434 TYR SER ALA LEU ILE GLU GLU ILE GLU GLU SER THR TYR ASN AND ATT AND ASP ASP LEU GLY ALA ASP ASP LEU THR PRO PHE GLY GLU 434 GLN GLU LEU VAL ASN SER GLY ILE LYS PHE TYR GLN ARG 434 TYR GLU SER LEU GLY ALA ASP ASP LEU THR PRO PHE GLY GLU 434 GLN GLU LEU VAL ASN SER GLY ILE LYS PHE TYR GLN ARG 434 TYR GLU SER LEU GLY ALA ASP ASP LEU THR PRO PHE ILE ARG 434 TYR GLU SER LEU GLY ALA ASP ASP LEU THR PRO PHE ILE ARG 434 GLN GLU LEU VAL ASN SER GLY ILE LYS PHE TYR GLN ARG 434 TYR GLU SER LEU THR ARG ASN ILE VAL PRO PHE ILE ARG 434 TYR GLU SER GLY LYS ASP PRO 434 GLN GLY FHE GLN SER THR LYS LEU LYS ASP PRO 434 PHE ILE GLU GLY PHE GLN SER THR LYS LEU LYS ASP PRO 434 VAL ILE SER GLU ALA SER SER RAN ASN THR LEU ASP VAL 434 PRO GLY THR CYS THR VAL PHE GLU ASP SER GLU LEU ALA ASP THR VAL GLU ALA ASP PHE THR ALS THR LEU ASP MET 434 CYS SER PHE ASP THR GLU VAL AND FILE ARG LU ALA ASP THR LEU ASP MET 434 CYS SER PHE ASP THR GLU VAL THR TYR LEU MET ASP MET 434 CYS SER PHE ASP THR GLU VAL THR TYR LEU SER GLY VAL 434 ALA ASN GLU LEU ILE ALA ARG LEU GLY FIN THR LEU ASP SER GLU LEU ALA ASP THR LEU THR ASP THR GLU VAL THR TYR LEU SER FOO VAL 434 ALA ASN GLU LEU ILE ALA ARG LEU THR HIS SER PRO VAL 434 ALA ASN GLU LEU ILE ALA ARG LEU THR HIS SER PRO VAL 434 HIS ASP ASP LEU GLY PRO THR GLU TYR ALA ASP 4434 PHE SER HIS ASP ASN GLY ILE ILE SER ILE LEU PHE ALA ASP 4434 PHE SER HIS ASP ASN GLY ILE ILE SER ILE LEU PHE ALA ASP THR WAL GLU ASN ASP AR
                                                                                                                                                                                                                            1DIK
 REMARK
                                                                                                                                                                                                                             IDIK
REMARK
                                                                                                                                                                                                                             1DIK
                                                                                                                                                                                                                            1DIK
1DIK
 REMARK
 REMARK
                                                                                                                                                                                                                            1DIK
                                                                                                                                                                                                                                              48
 REMARK
                                                                                                                                                                                                                            1DIK
1DIK
 SEORES
                                                                                                                                                                                                                            1DIK
1DIK
 SEORES
SEORES
                                                                                                                                                                                                                            1DIX
 SECRES
                                                                                                                                                                                                                            1DIK
1DIK
 SECRES
                                                                                                                                                                                                                            1DTK
 SEQRES
                                                                                                                                                                                                                             lDIK
 SEQRES
                                                                                                                                                                                                                             lDIK
                                                                                                                                                                                                                            IDIX
IDIX
IDIX
                                                                                                                                                                                                                                             59
60
 SEGRES
 SEQRES
SEORES
                                                                                                                                                                                                                                              61
62
 SEQRES
                                                                                                                                                                                                                            IDIK
                                                                                                                                                                                                                                              63
64
65
 SECRES
SEQRES
SEQRES
                                                                                                                                                                                                                            IDIK
IDIK
                       16
17
18
                                                                                                                                                                                                                                              66
67
68
                                                                                                                                                                                                                            1DIK
1DIK
 SECRES
 SEQRES
 SECRES
                                                                                                                                                                                                                            1DIK
 SEQRES
                                                                                                                                                                                                                             1DIK
                       19
20
21
22
23
24
25
26
27
                                                                                                                                                                                                                                              69
70
71
72
73
74
75
76
 SECRES
                                                                                                                                                                                                                            1DIK
                                                                                                                                                                                                                            10IK
10IK
10IK
 SECRES
 SEQRES
 SEORES
                                                                                                                                                                                                                            1DIK
1DIK
 SEQRES
 SECRES
                                                                                                                                                                                                                            IDIK
10IK
 SEORES
 SEGRES
                        28
                                                                                                                                                                                                                             1DIK
 SEORES
                                                                                                                                                                                                                                              78
                        29
30
                                                                                                                                                                                                                            1DIK
1DIK
 SEQRES
 SEQRES
                                                                                                                                                                                                                                              80
 SEQRES
                        31
32
                                                                                                                                                                                                                             1DIK
1DIK
 SEQRES
SEQRES
                        33
                                                                                                                                                                                                                             1DIK
1DIK
1DIK
                    34
504
                                           434
201
 HET
                                                                                                                                                                                                                                               85
                                                          04 S1
 FORMUL
                                                                                                                                                                                                                             1DIK
1DIK
                                                       *115 (H2 O1)
8 CYS
48 CYS
 FORMUL.
                                    HOH
                                 CYS
CYS
CYS
                                                                                                 17
391
442
259
  SSBOND
 SSBOND
                                                                                                                                                                                                                                               89
                                                                                                                                                                                                                              1DIK
                                                       192
241
                                                                            CYS
  SSBOND
                                                                                                                                                                                                                              10 IK
                                                                                                                                                                                                                              IDIK
 SSBOND
                                                                            CYS 259
CYS 421
100.890 90.00
7 -18.097
7 -17.205
7 -16.157
7 -15.210
7 -18.027
7 -18.983
 SSBOND
CRYST1
                                                       413
92.250
                                 CYS
                                                                                                                                                                                                                              1DIK
                             92.250
                                                                                                                                90.00 120.00 P 3 2 1
9.685 9.811 1.00 6
0.761 9.300 1.00 6
                                                                                                                                                                                                                             IDIK
                                                                                                                                                                                          62.21
63.47
63.25
63.40
64.21
 ATOM
ATOM
                                                     SER
SER
                                                                                                                           39.685
40.761
                                                                                                                                                                                                                              1DIK
1DIK
                                                                                                                                                                                                                                               94
95
96
97
                                                                                                                                                                            1.00
1.00
1.00
1.00
                                                                                                                            41.230
41.924
41.947
                                                                                                                                                    10.307
9.918
8.800
 ATOM
                                        C
                                                      SER
                                                                                                                                                                                                                              1DTK
  ATOM
                                        CB
 MOTA
                                                     SER
                                                                                                                                                                                                                              1DIX
                                                                                                                                                                                                                                               98
                                         OG
                                                     SER
                                                                                                                                                        7.850
  ATOM
```

MOTA	8	N	CYS	8	-16.314	40.885	11.590	1.00 60.09	1DIK 100
ATOM	9	CA	CYS	8	-15.278	41.262	12.561	1.00 57.19	1DIK 101
ATOM	10	Ç	CYS	8	-14.528	40.052	13.134	1.00 54.36	1DIK 102
ATCH	11	0	CYS	8	-13.593	40.225	13.913	1.00 54.16	1DIK 103
MOTA	12	CB	CYS	8	-15.738	42.278	13.657	1.00 55.87	1DIK 104
MOTA	13	SG	CYS	8	-17.414	42.211	14.391	1.00 47.31	1DIK 105
MOTA	14	N	ASP	9	-14.945	38.838	12.748	1.00 49.46	1DIK 106
MOTA	15	CA	ASP	9 9	-14.217	37.609	13.109	1.00 44.53	1DIK 107
MOTA	16	¢	ASP		-13.647	37.121	11.763	1.00 43.95	1DIK 108
MOTA	17	0	ASP	9	-14.380	36.543	10.956	1.00 45.30	1DIK 109
ATOM	18	CB	ASP	9	-15.112	36.512	13.687	1.00 36.86	1DIK 110
ATOM	19	CG	ASP	9	-14.324	35.205	13.981	1.00 43.08	1DIK 111
MOTA	20		ASP	9	-13.169	35.246	14.466	1.00 36.37	1DIK 112
MOTA	21		ASP	9	-14.860	34.107	13.725	1.00 53.20	1DIK 113
MOTA	22	N	THR	10	-12.360	37.357	11.515	1.00 39.20	1DIK 114
MOTA	23	CA	THR	10	-11.744	36.961	10.248	1.00 34.97	1DIK 115
ATOM	24	c	THR	10	-10.770	35.792	10.388	1.00 35.15	101K 116
ATOM	25	0	THR	10	-10.407	35.410	11.502	1.00 32.93	1DIK 117
MOTA	26	CB	THR	10	-10.988	38.148	9.605	1.00 32.39	1DIK 118
MOTA	27	OG1 CG2	THR	10 10	-9.967	38.612	10.500	1.00 36.02 1.00 24.30	1DIK 119
MOTA	28	N	VAL	11	-11.937	39.286	9.319 9.256	1.00 24.30 1.00 35.93	1DIK 120 1DIK 121
MOTA MOTA	29 30	Čλ	VAL	ii	-10.352 -9.398	35.228 34.123	9.261	1.00 35.37	101K 121
ATOM	31	č	VAL	ii	-8.050	34.591	9.798	1.00 36.90	1DIK 123
MOTA	32	ŏ	VAL	îi	-7.442	33.912	10.623	1.00 38.05	1DIK 124
MCTA	33	СB	VAL	īī	-9.196	33.528	7.840	1.00 36.34	1DIK 125
MOTA	34	CG1		īī	-7.982	32.584	7.806	1.00 29.66	1DIK 126
ATOM	35		VAL	īī	-10.440	32.772	7.429	1.00 36.52	1DIK 127
ATOM	36	N	ASP	12	-7.585	35.749	9.334	1.00 36.93	1DIK 128
ATOM	37	CA	ASP	12	-6.298	36.277	9.774	1.00 35.36	1DIK 129
MOTA	38	C	ASP	12	-6.298	37.009	11.094	1.00 32.61	1DIK 130
ATOM	39	0	ASP	12	-5.449	36.757	11.930	1.00 31.31	1DIK 131
ATOM	40	CB	ASP	12	-5.698	37.195	8.712	1.00 44.11	1DIK 132
MOTA	41	CG	ASP	12	-4.974	36.428	7.629	1.00 54.17	1DIK 133
MOTA	42	OD1		12	-3.831	35.998	7.891	1.00 59.05	1DIK 134
MOTA	43	OD 2	ASP	12	-5.540	36.252	6.523	1.00 57.68	1DIK 135
ATOM	44	N	GLN	13	-7.241	37.918	11.294	1.00 31.17	1DIK 136
MOTA	45	CA	GLN	13	-7.251	38.684	12.530	1.00 31.70	1DIK 137
MOTA	46	c	GLN	13	-7.944	38.049	13.741	1.00 30.12	1DIK 138
MOTA	47	0	GLN	13	-7.706	38.450	14.879	1.00 26.40	1DIK 139
ATOM	48	CB	GLN	13 13	-7.804	40.090	12.265	1.00 38.39	1DIK 140
MOTA	49	CG	GLN		-6.865	40.982	11.450	1.00 44.04 1.00 53.25	1DIK 141
ATOM	50 51	CD OE1	GLN	13 13	-5.467 -5.251	41.085 41.806	12.071 13.055	1.00 53.25 1.00 56.16	1DIK 142 1DIK 143
MOTA MOTA	52	NE2	GLN	ii	-4.510	40.357	11.497	1.00 59.15	1DIX 144
ATCM	53	N	CLY	14	-8.792	37.057	13.520	1.00 26.13	1DIK 145
MOTA	54	CA	GLY	14	-9.476	36.460	14.648	1.00 23.53	1DIK 146
ATOM	55	c	GLY	14	-10.684	37.301	15.001	1.00 23.2B	1DIK 147
ATOM	56	0	GLY	14	-11.198	38.031	14.162	1.00 21.73	1DIK 148
MOTA	57	N	TYR	15	-11.137	37.211	16.241	1.00 26.17	1DIK 149
MOTA	58	CA	TYR	15	-12.312	37.944	16.682	1.00 27.82	1DIK 150
ATÓM	59	С	TYR	15	-12.033	39.383	17.139	1.00 29.70	1DIK 151
MOTA	60	0	TYR	15	-11.437	39.617	18.200	1.00 30.97	1DIK 152
MOTA	61	CB	TYR	15	-12.986	37.154	17.786	1.00 27.03	1DIK 153
ATOM	62	CG	TYR	15	-14.380	37.607	18.120 17.386	1.00 31.13	1DIK 154
MOTA	63	CD1	TYR	15	-15.471	37.146	17.386	1.00 30.29	1DIK 155
ATOM	64	CD2	TYR	15	-14.620	38.456	19.203	1.00 29.69	1DIK 156
ATOM	65	CEL	TYR	15	-16.767	37.512	17.721	1.00 33.21	1DIK 157
MOTA	66	CE2	TYR	15 15	-15.912	38.829	19.549	1.00 30.40	1DIK 158
MOTA MOTA	67 68	CZ OH	TYR TYR	. 15	-16.982	38.355	18.808 19.151	1.00 34.78 1.00 36.84	1DIK 159 1DIK 160
MOTA	69	N	GLN	16	-10.266 -12.482	38.709 40.336	16.327	1.00 28.71	1DIK 161
MOTA	70	CA	GLN	16	-12.293	41.760	16.583	1.00 31.69	1DIK 162
MOTA	71	c	GLN	16	-13.566	42.534	16.957	1.00 30.38	1DIK 163
ATOM	72	ŏ.	GLN	16	-13.543	43.754	17.038	1.00 35.26	1DIK 164
ATOM	73	CB	GLN	16	-11.616	42.419	15.367	1.00 32.17	1DIK 165
MOTA	74	CG	GLN	16	-10.250	41.819	14.974	1.00 34.26	1DIK 166
MOTA	75	CD	GLN	16	-9.212	41.894	16.098	1.00 40.25	1DIX 167
ATOM	76	OE1	GLN	16	-9.300	42.740	16.991	1.00 44.10	1DIK 168
ATOM	77	NE 2	GLN	16	-8.227	41.003	16.060	1.00 37.91	101K 169
ATOM	78	N	CYS	17	-14.673	41.836	17.182	1.00 32.53	1DIK 170
ATOM	79	CA	CYS	17	-15.934	42.483	17.563	1.00 34.82	1DIK 171
HOTA	80	C	CYS	17	-15.8BO	42.811	19.062	1.00 32.69	101K 172
MOTA	81	0	CYS	17	-15.355 -17.131	42.015 41.544	19.843 17.323	1.00 34.59	1DIK 173
MOTA	82	CB	CYS	17	~17.131	41.544	17.323	1.00 40.76	10IK 174
MOTA	83	SG	CYS	17	-17.305	40.688	15.705	1.00 49.21	1DIK 175
MOTA	84	×	PHE	18	-16.413	43.965	19.464	1.00 28.18	1DIK 176
MOTA	85	CA	PHE	18	-16.446	44.383	20.882	1.00 26.43	1DIK 177
ATOM	86	ç	PHE	18	-15.108	44.212	21.611	1.00 26.33	1DIK 178
MOTA	87	0	PHE	18	-15.098	43.898	22.798	1.00 30.47	1DIK 179
MOTA	88	CB	PHE	18	-17.499	43.579	21.665	1.00 20.51	1DIK 180
ATOM	89	CG	PHE	18	-18.754	43.278	20.892	1.00 19.05	1DIK 181
MOTA	90	CDI	PHE	18	-19.677	44.275	20.610	1.00 21.82	101K 182 101K 183
ATOM	91 92		PHE	18	-19.014	41.988	20.447 19.892	1.00 16.40	1DIK 183
MOTA	74	-51		18	-20.850	43.991	12.025	1.00 21.59	TOTY 104

		_							
ATOM	93	CE2		18	-20.180	41.691	19.729	1.00 19.40	1DIK 185
ATOM	94	CZ	PHE	18	-21.100	42.695	19.451	1.00 21.61	1DIK 186
HOTA	95	N	SER	19	-13.997	44.422	20.912	1.00 29.30	1DIK 187
MOTA	96	CA	SER	19	-12.648	44.228	21.461	1.00 30.72	1DIK 188
MOTA	97	C	SER	19	-12.361	44.754	22.857	1.00 31.50	1DIK 189
MOTA	98	0	SER	19	-11.619	44.128	23.617	1.00 32.76	1DIK 190
MOTA	99	CB	5ER	19	-11.603	44.799	20.500	1.00 28.75	1DIK 191
ATOM	100	OG	SER	19	-11.757	46.201	20.381	1.00 33.48	1DIK 192
MOTA	101	N	GLU	20	-12.939	45.899	23.192	1.00 31.46	1DIK 193
HOTA	102	CA	GLU	20	-12.715	46.498	24.497	1.00 34.60	1DIK 194
ATOM	103	C	GLU	20	-13.323	45.653	25.626	1.00 33.63	1DIK 195
MOTA	104	0	GLU	20	-12.963	45.832	26.786	1.00 35.88	1DIK 196
HOTA	105	CB	GĻU	20	-13.214	47.961	24.522	1.00 36.86	10IK 197
MOTA	106	CG	GLU	20	-14.736	48.175	24.598	1.00 47.02	101K 198
MOTA	107	CD	GLU	20	-15.534	47.635	23.389	1.00 56.13	1DIK 199
ATOM	108	OEL		20	-15.103	47.815	22.218	1.00 56.48	1DIK 200
ATOM	109	OE2	GLU	20	-16.615	47.025	23.618	1.00 58.06	1DIK 201
ATOM	110	N	THR	21	-14.234	44.736	25.288	1.00 30.34	1DIK 202
ATOM	111	CA	THR	21	-14.861	43.832	26.267	1.00 27.14	1DIK 203
ATOM	112	C	THR	21	-14.525	42.355	25.983	1.00 26.26	1DIK 204
ATOM	113	0	THR	21	-14.048	41.641	26.868	1.00 24.39	1DIK 205
ATOM	114	СВ	THR	21	-16.405	43.965	26.272	1.00 26.34	1DIK 206
ATOM	115	0G1		21	-16.758	45.337	26.448	1.00 32.63	1DIK 207
MOTA	116	CG2	THR	21	-17.026	43.137	27.395	1.00 15.06	1DIK 208
ATOM	117	N	SER	22	-14.763	41.903	24.750	1.00 24.89	1DIK 209
MOTA	118	CA	SER	22	-14.533	40.506	24.377	1.00 21.13	1DIK 210
ATOM	119	C	SER	22	-13.105	40.015	24.621	1.00 20.85	1DIK 211
MOTA	120	ŏ	SER	22	-12.896	38.837	24.919	1.00 19.87	1DIK 212
ATOM	121	CB	SER	22	-14.924	40.282	22.918	1.00 16.59	1DIK 213
ATOM	122	OG	SER	22	-14.015	40.939	22.044	1.00 23.72	1DIK 214
ATOM	123	N	HIS	23	-12.126	40.911	24.497	1.00 20.46	1DIK 215
MOTA	124	CA	HIS	23	-10.726	40.555	24.708	1.00 20.05	1DIK 216
ATOM	125	C	HIS	23	-10.329	40.455	26.183	1.00 24.47	101K 217
ATOM	126	ō	HIS	23	-9.196	40.084	26.496	1.00 25.61	101K 218
ATOM	127	ČВ	HIS	23	-9.800	41.536	23.982	1.00 17.77	1DIK 219
ATOM	128	CG	HIS	23	-9.861	41.426	22.484	1.00 24.57	1DIK 220
MOTA	129	ND1		23	-8.936	42.020	21.651	1.00 20.40	
ATOM	130	CD2		23	-10.746	40.795			101K 221
ATOM	131	CEI		23	-9.247	41.764	21.670	1.00 23.97 1.00 20.67	1DIK 222 1DIK 223
MOTA	132		HIS	23	-10.340	41.022	20.392 20.376		
ATOM	133	N	LEU	24	-11.263	40.776		1.00 23.06	1DIK 224
ATOH	134	CA	LEU	24	-11.025	40.716	27.081	1.00 25.15	1DIK 225
MOTA	135	č	LEU	24	-11.739	39.538	28.524	1.00 24.99	1DIX 226
ATOM	136	ŏ	LEU	24	-11.984		29.210	1.00 27.65	1DIK 227
ATOM	137	ČВ	LEU	24		39.575	30.421	1.00 25.05 1.00 22.74	1DIK 228
ATOM	138	cc	LEU	24 -	-11.455	42.034	29:176		10IK 229
ATOM	139	CD1	LEU	24	-10.626	43.258	28.774	1.00 22.62	1DIK 230
ATOM	140	CD2	LEU	24	-11.264 -9.211	44.509	29.324	1.00 23.25 1.00 15.42	1DIX 231
ATOM	141	N	TRP		-9.211	43.126	29.281	1.00 15.42	1DIK 232
MOTA	142	CA	TRP	25 25	-12.062 -12.744	38.496	28.437	1.00 26.64	. 1DIK 233
ATOM	143	č	TRP	25		37.317	28.961	1.00 21.87	1DIK 234
	144	ò			-11.811	36.148	29.357	1.00 22.59	1DIK 235
MOTA	145	СВ	TRP	25	-12.283	35.040	29.625	1.00 22.32	1DIK 236
atom Atom	146	CG	TRP TRP	25 25	-13.804	36.845	27.951	1.00 22.87	1DIK 237
MOTA	147	CDI	TRP	25	-14.977 -15.376	37.813	27.754	1.00 25.99	1DIK 238
MOTA	148	CDZ	TRP	25	-15.880	38.805	28.615	1.00 22.03	1DIK 239 1DIK 240
ATOM	149	NE1	TRP	25		37.877	26.626	1.00 23.51 1.00 22.08	1DIK 240 1DIK 241
ATOM	150	CE2	TRP	25	-16.459 -16.792	39.475	28.094	1.00 24.34	1DIK 242
ATOM	151	CE3	TRP	25	-16.004	38.931 37.150	26.877 25.425	1.00 25.98	1DIK 243
ATOM	152	CZZ	TRP	25	-17.821	39.280	25.973	1.00 20.60	1DIK 244
MOTA	153	CZ3	TRP	25	-17.034	37.500	24.517	1.00 21.02	1DIK 245
ATOM	154	CH2	TRP	25	-17.923	38.555	24.804	1.00 20.24	101K 246
MOTA	155	N	GLY	26	-10.499	36.384	29.403	1.00 20.85	1DIK 247
ATOM	156	CA	GLY	26	-9.566	35.322	29.757	1.00 21.54	1DIK 248
ATOH	157	ç	GLY	26	-9.676	34.138	28.806	1.00 21.52	1DIK 249
ATOM	158	ŏ	GLY	26	-9.642	34.319		1.00 19.25	1DIK 250
ATOM	159	N	GLN	27	-9.819	32.927	27.590 29.346	1.00 23.90	1DIX 251
ATOM	160	CA	GLN	27	-9.946	31.740	28.503	1.00 24.89	1DIK 252
ATOM	161	č	GLN	. 27	-11.340	31.566	27.902	1.00 24.51	1DIK 253
MOTA	162	ŏ	GLN	27	-11.500		27.226		
ATOM	163	СВ	GLN	27	-11.600 -9.535	30.573 30.455	29.245	1.00 25.98	1DIK 254 1DIK 255
ATOM	164	CG	GLN	27					
MOTA	165	CD	GLN	. 27	-10.472 -10.344	29.995 30.823	30.323	1.00 21.01	1DIK 256
MOTA	166		GLN	27	-9.452		31.573	1.00 31.10	1DIK 257 1DIK 258
MOTA	167		GLN	27	-11 221	31.671 30.588	31.694 32.517		101K 3E0
	168	N	TYR	28	-11.231 -12.241	30.386	36.31/	1.00 32.00 1.00 25.51	1DIK 259 1DIK 260
MOTA		CA			-12.241	32.516	58.120	1.00 25.51	TOTY TOO
ATOM	169 170		TYR	28	-13.592	32.472	27.578	1.00 23.43	1DIK 261
MOTA	171	0	IYR	28 28	-13.647	33.499	26.433	1.00 24.19	1DIK 262
ATOM			TYR		-14.716	33.779	25.867	1.00 24.91	1DIK 263
MOTA	172	CB	TYR	28	-14.673	32.787	28.624	1.00 20.52	1DIK 264
MOTA	173	CG	TYR	28	-14.797	31.767	29.727	1.00 21.45	101K 265
ATOM	174 175	CDI	TYR	28 28	-14.609	30.402	29.480	1.00 25.41 1.00 26.26	1DIK 266 1DIK 267
MOTA	176	CDZ	TYR TYR		-15.091	32.164	31.027	1.00 24.46	101K 26/
ATOM		CEI	TYR	28	-14.711	29.462	30.506	1.00 24.86	1DIK 268
ATOM	177	LE2	111	28	-15.194	31.238	32.056	1.00 28.46	101K 269

ATOM	178	cz	TYR	28	-15.005	29.895	31.793	1.00 29.76	1DIK 270
ATOM	179	ОН	TYR	28	-15.113	28.997	32.827	1.00 35.18	1DIK 271
ATOM	180	N	ALA	29	-12.480	34.061	26.111	1.00 21.55	1DIK 272
ATOM	181	CA	ALA	29	-12.340	35.025	25.029	1.00 21.69	1DIK 273
MOTA	182	С	ALA	29	-12.102	34.251	23.725	1.00 22.47	101K 274
MOTA	183	0_	ALA	29	-11.401	33.233	23.720	1.00 22.07	1DIK 275
MOTA	184	CB	ALA	29	-11.139	35.944	25.305	1.00 12.96	1DIK 276
MOTA	185	N CA	PRO PRO	30 30	-12.709 -12.509	34.697 34.027	22.612 21.319	1.00 24.01 1.00 20.94	1DIK 277
ATOM ATOM	186 187	C	PRO	30	-11.099	34.409	20.841	1.00 19.17	1DIK 278 1DIK 279
ATOM	188	ŏ	PRO	30	-10.608	35.498	21.155	1.00 18.52	1DIX 280
ATOM	189	ČВ	PRO	30	-13.568	34.671	20.414	1.00 20.61	1DIK 281
MOTA	190	CG	PRO	30	-14.540	35.324	21.362	1.00 24.76	1DIK 282
MOTA	191	CD	PRO	30	-13.651	35.819	22.480	1.00 25.47	1DIK 283
MOTA	192	N	Phe	31	-10.438	33.533	20.093	1.00 20.80	1DIK 284
MOTA	193	ÇA	PHE	31	-9.102	33.861	19.596	1.00 19.54	1DIK 285
MOTA	194	Č.	PHE	31	-9.077	35.195	18.814	1.00 20.93	1DIX 286
MOTA	195 196	O CB	PHE	31 31	-9.957 -8.552	35.482 32.723	17.984 18.692	1.00 20.23 1.00 17.50	1DIK 287 1DIK 288
MOTA MOTA	197	CG	PHE	31	-7.448	33.165	17.750	1.00 19.27	1DIK 289
MOTA	198		PHE	31	-6.119	33.222	18.181	1.00 21.10	1DIK 290
ATOM	199	CD2		31	-7.747	33.579	16.435	1.00 18.79	1DIK 291
ATOM	200		PHE	31	-5.105	33.692	17.318	1.00 21.44	1DIK 292
ATOM	201	CE2	PHE	31	-6.741	34.050	15.564	1.00 14.12	1DIK 293
MOTA	202	CZ	PHE	31	-5.426	34.108	16.005	1.00 17.15	1DIK 294
MOTA	203	N	PHE	32	-8.067	36.005	19.097	1.00 18.45	1DIK 295
MOTA	204	CA	PHE	32 32	-7.844	37.244	18.368	1.00 20.59	10IK 296 10IK 297
MOTA MOTA	205 206	C	PHE	32	-6.324 -5.536	37.260 36.921	18.121 19.002	1.00 20.82 1.00 23.47	10IK 298
ATOM	207	CB	PHE	32	-8.350	38.480	19.131	1.00 19.12	10IK 299
MOTA	208	CG	PHE	32	-7.872	38.573	20.560	1.00 23.83	1DIK 300
ATOM	209		PHE	32	-8.508	37.845	21.577	1.00 20.95	1DIK 301
ATOM	210	CD2	PHE	32	-6.806	39.406	20.896	1.00 19.92	101K 302
ATOM	211		PHE	32	-8.095	37.946	22.896	1.00 20.93	1DIK 303
ATOM	212		PHE	32	~6.382	39.517	22.219	1.00 22.76	1DIK 304
ATOM	213	CZ	PHE	32	-7.032	38.783	23.226	1.00 23.83	1DIK 305 1DIK 306
ATOM	214	N CA	SER SER	33 33	-5.914 -4.504	37.623 37.635	16.915 16.571	1.00 20.87 1.00 22.19	1DIK 306 1DIK 307
MOTA MOTA	216	C	SER	33	-3.672	38.690	17.284	1.00 23.15	10IK 308
ATOM	217	ŏ	SER	33	-4.041	39.870	17.320	1.00 23.04	1DIK 309
MOTA	218	ĊВ	SER	33	-4.329	39.870 37.796 37.792	15.060	1.00 22.81	1DIK 310
MOTA	219	OG	SER	33	-2.947	37.792	14.729	1.00 25.39	1DIK 311
MOTA	220	N	LEU	34	-2.544	38.263	17.846	1.00 23.77	1DIK 312
MOTA	221	CA	LEU	34	-1.638	39.188	18.523	1.00 25.51	101K 313
ATOM	222	C	LEU	34	-0.492	39.605	17.606	1.00 26.78	1DIK 314
ATOM	223	0	LEU LEU	34 34	0.501	40.148 38.572	18.084 19.796	1.00 26.99 1.00 23.17	10IK 315 10IK 316
ATOM ATOM	224 225	CB CG	LEU	34	-1.063 -2.087	38.252	20.887	1.00 25.71	1DIK 317
MOTA	226	CD1		34	-1.395	37.465	21.984	1.00 23.09	10IK 318
ATOM	227	CDZ		34	-2.712	39.528	21.427	1.00 19.78	1DIK 319
ATOM	228	N	ALA	35	-0.639	39.365	16.301	1.00 27.00	10IK 320
MOTA	229	CA	ALA	35	0.390	39.711	15.319	1.00 31.06	1DIK 321
MOTA	230	C	ALA	35	0.835	41.166	15.428	1.00 35.74	1DIX 322
MOTA	231	0	ALA	35	2.025	41.455	15.344	1.00 39.04	1DIK 323
MOTA	232	CB	ALA	35	-0.103	39.434	13.915	1.00 24.83	1DIK 324 1DIK 325
ATOM ATOM	233 234	N CY	ASN ASN	36 36	-0.118 0.181	42.075 43.506	15.623 15.737	1.00 39.86 1.00 41.12	1DIX 325 1DIX 326
ATOM	235	c	ASN	36	0.815	43.897	17.057	1.00 40.64	101K 327
ATOM	236	ŏ	ASN	36	1.319	45.010	17.188	1.00 42.67	1DIK 328
ATOM	237	CB	ASN	36	-1.084	44.349	15.538	1.00 43.24	1DIK 329
MOTA	238	CG	ASN	36	-1.671	44.193	14.156	1.00 49.12	1DIK 330
ATOM	239		ASN	36	-0.945	44.021	13.172	1.00 50.49	1DIK 331
ATOM	240		ASN	36	-2.995	44.246	14.066	1.00 56.59	1DIK 332
MOTA	241	N	GLU	37	0.784	43.000	18.039	1.00 39.04 1.00 39.87	1DIK 333 1DIK 334
ATOM	242 243	CA	GLU	37 37	1.380 2.788	43.287 42.722	19.440	1.00 37.45	10IK 335
ATOM ATOM	244	ò	GLU	37	3.506	42.963	20.411	1.00 38.65	1DIK 336
ATOM	245	СВ	GLU	37	0.530	42.693	20.478	1.00 43.47	1DIK 337
ATOM	246	CG	GLU	37	-0.796	43.401	20.721	1.00 47.80	10IK 338
ATOM	247	CD	GLU	37	-0.616	44.863	21.087	1.00 51.75	1DIK 339
MOTA	248	OEL		37	0.084	45.166	22.088	1.00 51.94	1DIK 340
ATOM	249		GLU	37	-1.183	45.710	20.357	1.00 55.20	1DIK 341
MOTA	250	М	SER	38	3.174	41/.961	18.425	1.00 35.62	1DIK 342
ATOM	251 252	CA	SER	38 30	4.482	41.340 42.357	18.389	1.00 34.02	1DIK 343 1DIK 344
MOTA MOTA	253	C	SER	38 38	5.565 5.428	43.061	17.986 16.985	1.00 34.45	101K 345
ATOM	254	СВ	SER	38	4.454	40.163	17.404	1.00 33.07	1DIK 346
ATOM	255	OG	SER	38		39.292	17.583	1.00 28.90	1DIX 347
MOTA	256	N	VAL	39	6.632		18.782	1.00 33.51	1DIK 348
ATOH	257	CA	VAL	39	7.767	43.305	18.541	1.00 33.30	1DIK 349
MOTA	258	C	VAL	39	8.539	42.760	17.327	1.00 33.54	1DIK 350
MOTA	259	0	VAL	39	9.024	43.520	16.490	1.00 34.06	1DIK 351
ATOM	260	CB	VAL	39	8.690	43.356	19.801	1.00 37.39	1DIK 352
ATOM ATOM	261 262		VAL	39 39	9.833 7.884	44.331	19.602	1.00 39.93	1DIK 353 1DIK 354
ALUM.	404		VAL		7.884	4.1.114	21.018	1.UU JO.10	1016 334

MOTA	263	N	ILE	40	8.645	41.434	17.239	1.00 32.27	10IK 355
ATOM	264	CA	ILE	40	9.323	40.766	16.127	1.00 29.21	1DIK 356
	265	Č.	ILE	40					
ATOM					8.262	40.386	15.083		1DIK 357
ATOM	266	0	ILE	40	7.195	39.885	15.440	1.00 26.34	1DIK 358
MOTA	267	CB	ILE	40	10.059	39.494	16.624	1.00 29.64	1DIK 359
ATOM	268	CG1	TIP	40	11.147	39.900	17.631	1.00 30.03	1DIK 360
ATOM	269	CG2		40	10.633	38.721	15.436	1.00 26.81	1DIK 361
MOTA	270	CD1	ILE	40	11.771	38.777	18.437	1.00 26.07	1DIK 362
MOTA.	271	N	SER	41	8.548	40.626	13.806	1.00 29.09	1DIK 363
			SER		7.594				
MOTA	272	CA		41	7.394	40.302	12.737		1DIK 364
MOTA	273	C	SER	41	7.310	38.798	12.646	1.00 29.37	1DIK 365
MOTA	274	0	SER	41	8.234	37.990	12.552	1.00 28.10	1DIK 366
ATOM	275	CB	SER	41	8.113	40.802	11.386	1.00 29.99	1DIK 367
					0.113	40.802	11.300	1.00 29.99	
ATOM	276	OG	SER	41	7.148	40.555	10.379	1.00 32.70	1DIK 368
ATOM	277	N	PRO	42	6.021	38.410	12.664	1.00 31.46	1DIK 369
ATOM	278	CA	PRO	42	5.577	37.009	12.592	1.00 30.99	1DIK 370
ATOM	279	С	PRO	42	5.915	36.287	11.285	1.00 31.80	1DIK 371
MOTA	280	0	PRO	42	5.950	35.062	11.241	1.00 34.31	1DIK 372
MOTA	281	CB	PRO	42	4.056	37.109	12.791	1.00 28.85	1DIK 373
	282	CG		42			13 454		
MOTA			PRO		3.852	38.432	13.454 12.766		
MOTA	283	CD	PRO	42	4.863	39.312	12.766	1.00 31.32	1DIK 375
ATOM	284	N	GLU	43	6.160	37.047	10.226	1.00 34.83	1DIK 376
ATOM	285	CA	GLU	43	6.467	36.483	8.917	1.00 36.61	1DIK 377
					7.707	30.703	0.036		
ATOM	286	Ç	GLU	43	7.765	35.703	8.835	1.00 35.76	1DIK 378
MOTA	287	0	GLU	43	8.757	36.046	9.480	1.00 37.48	1DIK 379
MOTA	288	CB	GLU	43	6.516	37.586	7.867	1.00 45.46	1DIK 380
MOTA	289	CG	GLU	43	5.236	38.394	7.734	1.00 61.52	1DIK 381
					5.430				
MOTA	290	CD	GLU	43	5.488	39.889	7.891	1.00 71.53	1DIK 382
ATOM	291	OEl	GĻU	43	6.553	40.371	7.420	1.00 76.20	1DIK 383
ATOM	292	OEZ		43	4.624	40.581	8.487	1.00 75.49	1DIK 384
									1DIK 385
MOTA	293	N	VAL	44	7.739	34.654	8.020	1.00 35.15	
ATOM	294	CA	VAL	44	8.900	33.806	7.785	1.00 34.87	1DIK 386
MOTA	295	C	VAL	44	9.900	34.708	7.060	1.00 36.04	1DIK 387
ATOM	296	ō	VAL	44	9.570	35.289	6.031	1.00 37.59	10IX 388
						33.203		1.00 37.33	
MOTA	297	CB	VAL	44	8.529	32.582	6.883	1.00 33.01	1DIK 389
ATOM	298	CGl	VAL	44	9.757	31.698	6.657	1.00 28.63	1DIK 390
MOTA	299	CG2	VAI.	44	7.398	31.773	7.522	1.00 26.10	1DIK 391
	300	N	PRO	45		24 027	7.590	1.00 38.73	1DIK 392
MOTA					11.131	34.837			1016 372
MOTA	301	CA	PRO	45	12.171	35.680	6.996	1.00 40.95	1DIK 393
ATOM	302	С	PRO	45	12.492	35.362	5.558	1.00 44.42	1DIK 394
ATOM	303	0	PRO	45	12.492	34.196	5.149	1.00 44.24	1DIK 395
7001						35 431	2 002		1DIK 396
ATOM	304	CB	PRO	45	13.382	35.431	7.893		
ATOM	305	CG	PRO	45	12.775	35.101	9.201	1.00 40.04	1DIK 397
ATOM	306	CD	PRO	45	11.645	34.183	8.806	1.00 40.88	1DIK 398
ATOM	307	N	ALA	46	12.769	36.418	4.798	1.00 48.71	1DIK 399
						30.710	7 700	1.00 50.25	
MOTA	308	CA	ALA	46	13.127	36.292	3.396	1.00 30.23	1DIK 400
ATOM	309	C	ALA	46	14.456	35.555	3.435	1.00 49.80	1DIK 401
MOTA	310	0	ALA	46	15.326	35.906	4.229	1.00 49.90	1DIK 402
ATOM	311	CB	ALA	46	13.304	37.577	2.777	1.00 50.74	1DIK 403
ATOM	312	N	GLY	47	14.613	34.533	2.600	1.00 47.13	10IK 404
ATOM	313	CA	GLY	47	15.862	33.789	2.596	1.00 41.93	1DIK 405
ATOM	314	С	GLY	47	15.863	32.579	3.520	1 00 30 04	1DIK 406
1.000						31.000			1DIK 407
ATOM	315	0	GLY	47	16.893	31.906	3.681	1.00 36.72	
ATOM	316	N	CYS	48	14.720	32.300	4.141	1.00 36.56	1DIK 408
MOTA	317	CA	CYS	48	14.609	31.139	5.012	1.00 34.94	1DIK 409
ATOM	318	c	CYS	48	13.549	30.237	4.434	1.00 34.24	1DIK 410
ATOM	319	0	CYS	48	12.669	30.684	3.693	1.00 33.85	1DIK 411
ATOM	320	CB	CYS	48	14.232	31.528	6.435	1.00 29.09	1DIK 412
ATOM	321	SG	CYS	48	15.506	32.511	7.263	1.00 30.08	1DIK 413
ATOM	322	พ	ARG	49	13.643	28.962	4.775	1.00 32.71	1DIK 414
ATOM									
ATOM	323	CA	ARG	49	12.707	27.965	4.293	1.00 31.47	1DIK 415
ATOM	324	c	ARG	49	12.307	27.093	5.496	1.00 29.98	1DIK 416
ATOM	325	0	ARG	49	13.181	26.547	6.196	1.00 24.89	1DIK 417
ATOM	326	CB	ARG	49	13.424	27.153	3.219	1.00 34.59	1DIK 418
							3.413		
MOTA	327	CG	ARG	49	12.615	26.104	2.516	1.00 45.38	1DIK 419
MOTA	3.28	CD	ARG	49	13.520	25.363	1.547	1.00 50.77	1DIK 420
ATOM	329	NE	ARG	49	14.760	24.899	2.185	1.00 53.82	1DIK 421
	330	CŽ	ARG				2.479	1.00 54.48	1DIK 422
MOTA				49	15.024	23.626			
ATOM	331	NHl	ARG	49	14.132	22.680	2.199	1.00 54.38	1DIK 423
ATOM	332	NH2	ARG	49	16.178	23.297	3.054	1.00 53.78	1DIK 424
				50	11.001		5.747	1.00 26.52	1DIK 425
ATOM	777	N	VAL			25.973	2.77	1 00 27 44	
ATOM	334	CA	VAL	50	10.510	26.167	6.865	1.00 23.44	1DIK 426
ATOM	335	C	VAL	50	10.718	24.689	6.555	1.00 22.87	1DIK 427
ATOM	336	ō	VAL	50	10.383	24.223	5.472	1.00 24.36	1DIK 428
	333								1DIK 429
ATOM	337	CB	VAL	50	9.012	26.441	7.157	1.00 22.39	
ATOM	338		VAL	50	8.518	25.564	8.318	1.00 22.32	1DIK 430
ATOM	339	CG2		50	8.817	25.564 27.903	7.506	1.00 18.72	1DIK 431
ATOM	340	N	THR	51	8.817 11.278	23.958	7.510	1.00 23.31	10IK 432
							7.510 7.341		10IK 433
ATOM	341	CA	THR	51	11.533	22.536	7.341	1.00 23.80	
MOTA	342	C	THR	51	10.764	21.649	8.332	1.00 25.07	1DIK 434
ATOM	343	ā	THR	51	10.821	20.422	8.242	1.00 25.40	1DIK 435
	344		THR	51	13.042	22.240	7.471	1.00 26.51	1DIK 436
ATOM		CB				22.674		1 00 27 17	1DIK 437
MOTA	345		THR	51	13.516	22.691	8.745	1.00 27.16	
ATOM	346	CGZ	THR	51	13.823	22.954	6.378	1.00 26.68	1DIK 438
ATOH	347	N	PHE	52	10.052		9.274	1.00 23.82	1DIK 439
				~~					

ATOM	348	CA	PHE	52	9.280	21.543	10.285	1.00 18.63	1DIK 440
MOTA	349	С	PHE	52	8.264	22.527	10.821	1.00 19.14	1DIK 441
MOTA	350		PHE	52	8.559	23.710	10.993	1.00 19.73	1DIK 442
ATOM	351		PHE	52	10.211	21.081	11.425	1.00 17.98	
ATOM	352		PHE	52	9.497	20.552	12.661	1.00 19.23	1DIK 444
MOTA	353	CD1		52	9.006	21.424	13.636	1.00 18.19	1DIK 445
MOTA	354	CD2		52	9.328	19.185	12.854	1.00 18.71	1DIK 446
HOTA	355	CE1		52	8.359	20.941	14.783	1.00 15.91	1DIK 447
MOTA	356	CE2	PHE	52	8.682	18.690	14.001	1.00 20.50	1DIK 448
MOTA	357	C2	PHE	52	8.198	19.576	14.964	1.00 16.11	1DIK 449
ATOM	358	N	ALA	53	7.061	22.053	11.072	1.00 16.93	1DIK 450
ATOM	359	CA	ALA	53	6.045	22.910	11.647	1.00 19.01	
			ALA					7.00 10.01	1DIK 451
ATOM	360	c		53	5.112	22.048	12.468	1.00 19.84	1DIK 452
MOTA	361	0_	ALA	53	4.647	21.002	12.011	1.00 21.85	1DIK 453
ATOM	362	CB	ALA	53	5.265	23.658	10.563	1.00 17.27	1DIK 454
MOTA	363	N	GLN	54	4.866	22.479	13.696	1.00 19.97	1DIK 455
ATOM	364	CA	GLN	54	3.924	21.801	14.570	1.00 16.77	1DIK 456
ATOM	365	С	GLN	54	2.963	22.820	15.172	1.00 13.22	1DIK 457
MOTA	366	0	GLN	54	3.370	23.901	15.592	1.00 15.19	1DIK 458
ATOM	367	CB	GLN	54	4.619	21.072	15.711	1.00 18.35	1DIK 459
ATOM	368	CG	GLN	54	3.595	20.527	16.697	1.00 24.84	1DIK 460
ATOM	369	CD	GLN	54	4.138		17.607	1.00 27.27	1DIK 461
				54		19.486	17.007		
MOTA	370		GLN		4.891	18.614	17.195	1.00 28.71	. 1DIK 462
MOTA	371		GLN	54	3.758	19.561	18.863	1.00 33.46	1DIK 463
ATOM	372	N	VAL	55	1.686	22.486	15.206	1.00 13.93	1DIK 464
ATOM	373	CA	VAL	5.5	0.721	23.372	15.822	1.00 14.13	1DIK 465
MOTA	374	C	VAL	55	0.094	22.604	16.990	1.00 14.94	1DIK 466
ATOM	375	0	VAL	55	-0.192	21.404	16.878	1.00 13.02	10IK 467
MOTA	376	СВ	VAL	55	-0.377	23.842	14.812	1.00 14.68	1DIK 468
MOTA	377	CGl		55	-1.062	22.645	14.155	1.00 8.55	1DIK 469
ATOM	378		VAL	55	-1.407	24.739	15.521	1.00 15.11	1DIK 470
ATOM	379	N	LEU	56	-0.076		18.111	1.00 11.84	1DIK 471
			LEU	56	~0.010	23.292	19.278	1.00 11.96	
ATOM	380	CA			-0.719	22.731		1.00 11.98	1DIK 472
MOTA	381	c	LEU	56	-1.896	23.694	19.426	1.00 14.67	1DIK 473
MOTA	382	0	LEU	56	-1.721	24.903	19.647	1.00 13.79	1DIK 474
ATOM	383	CB	LEU	56	0.197	22.771	20.503	1.00 17.28	1DIK 475
ATOM	384	CG	LEU	56	-0.513	22.538	21.842	1.00 17.00	1DIK 476
ATOM	385	CD1	LEU	56	-1.065	21.122	21.949	1.00 13.43	1DIK 477
ATOM	386	CD2		56	0.472	22.817	22.938	1.00 17.28	1DIK 478
ATOM	387	N	SER	57	-3.095	23.162	19.277	1.00 16.89	1DIK 479
ATOM	388	CA	SER	57	-4.289	23.976	19.329	1.00 16.37	1DIK 480
ATOM	389	č	SER	57	-5.260	23.544	20.411	1.00 16.34	1DIK 481
						23.344			
ATOM	390	0	SER	57	-5.341	22.363	20.760	1.00 18.09	1DIK 482
MOTA	391	CB	SER	57	-4.984	23.906	17.960	1.00 15.08	1DIK 483
MOTA	392	OG	SER	57	-6.256	24.527	17.966	1.00 15.23	1DIK 484
MOTA	393	N	ARG	58	-5.986	24.514	20.946	1.00 14.89	1DIK 485
MOTA	394	CA	ARG	58	-7.015	24.257 24.104	21.934	1.00 16.34	1DIK 486
ATOM	395	С	ARG	58	-8.299	24.104	21.100	1.00 20.75	1DIK 487
MOTA	396	0	ARG	. 58	-8.352	24.546	19.940	1.00 20.55	1DIK 488
MOTA	397	СВ	ARG	58	-7.159	25.457	22.874	1.00 14.15	1DIK 489
ATOM	398	ČĞ	ARG	58	-8.315	25.320	23.835	1.00 13.80	1DIK 490
				58			24.791	1.00 15.28	1DIK 491
MOTA	399	CD	ARG		-8.411	26.468	24.791		
ATOM	400	NE	ARG	58	-9.551	26.299 27.306	25.692	1.00 16.96	1DIK 492
MOTA	401	CZ	ARG	58	-10.218	27.306	26.253	1.00 17.74	1DIK 493
MOTA	402	NHI	ARG	58	-9.863	28.564	26.021	1.00 19.32	1DIK 494
ATOM	403		ARG	58	-11.239	27.055	27.051	1.00 14.92	1DIK 495
MOTA	404	N	HIS	59	-9.326	23.478	21.673	1.00 22.89	1DIK 496
ATOM	405	CA	HIS	59	-10.620	23.324	20.993	1.00 21.80	1DIK 497
ATOM	406	C	HIS	59	-11.286	24.703	20.795	1.00 21.30	1DIK 498
MOTA	407	0	HIS	59	-10.860	25.693	21.403	1.00 20.60	1DIK 499
MOTA	408	CB	HIS	59	-11.537	22.407	21.809	1.00 20.25	1DIK 500
ATOM	409	CG	HIS	59	, -11.767	22.867	23.218	1.00 21.97	1DIK 501
ATOM	410		HIS	59	-12.523	23.979	23.527	1.00 21.32	1DIK 502
ATOM	411		HIS	59	-11.350	22.356	24.400	1.00 18.14	1DIK 503
ATOM			HIS	59	-12.564		24.838	1.00 18.77	1DIK 504
	412					24.132	24.030		
MOTA	413		HIS	59	-11.860	23.161	25.390	1.00 19.93	1DIK 505
MOTA	414	N	GLY	60	-12.318	24.782	19.957	1.00 20.66	1DIK 506
ATOM	415	CA	GLY	60	-12.976	26.063	19.736	1.00 20.29	1DIK 507
MOTA	416	С	GLY	60	-13.950	26.442	20.847	1.00 21.51	1DIK 508
MOTA	417	0	GLY	60	-14.042	25.737	21.856	1.00 21.15	1DIK 509 1DIK 510
ATOM	418	N	ALA	61	-14.669	27.549	20.659	1.00 20.16	1DIK 510
ATOM	419	CA	ALA	61	-15.664	28.047	21.618	1.00 20.00	1DIK 511
ATOM	420	c c	ALA	61	-16.735	26.996	21.888	1.00 20.35	1DIK 512
ATOM	421	ŏ	ALA	61	-17.247	26.366	20.954	1.00 21.69	1DIK 513
ATOM	422	СB	ALA	61	-16.326	29.320	21.079	1.00 15.53	1DIK 514
	122			63			22.073	1 00 10 54	1DIK 515
ATOM	423	N	ARG	62	-17.077	26.823	23.161 23.581	1.00 19.64	TOTY 212
ATOM	424	CA	ARG		-18.070	25.832	23.581	1.00 19.57	1DIK 516 10IK 517
ATOM	425	C	ARG	62	-19.162	26.420	24.482	1.00 21.60	101K 517
ATOM	426	0	AP.G	62	-19.079	27.574	24.932	1.00 18.58	10IK 518
MOTA	427	CB	ARG		-17.378	24.703	24.346	1.00 15.11	1DIK 519
ATOM	428	CG	ARG	62	-16.505	25.211	25.486	1.00 17.39	1DIK 520
MOTA	429	CD	ARG	63	_16 271	24.195	26.609	1.00 22.59	10IK 521
ATOM	430	NE	ARG	62	-15.570	24.195 24.726	27.711	1.00 23.06	10IK 522
ATOM	431	cz	ARG	62	-16.067	25.234	28.839	1.00 25.28	101K 522 101K 523
MOTA	432		ARG	62	-17.379				
W T OLD	732	MUT	~~~	94	-11.319	25.272	29.052	1.00 28.41	1DIK 524

MOTA	433	NH2	ARG	62	-15.244	25.704	29.766	1.00 27.40	1077 500
ATOM	434	N	TYR	63			24.700		101K 525
ATOM	435	CA		63	-20.193	25.619	24.726	1.00 23.53	1DIK 526
			TYR		-21.280	26.004	25.615	1.00 25.54	101K 527
ATOM	436	Ç	TYR	63	-20.729	25.786	27.033	1.00 28.59	1DIK 528
MOTA	437	0	TYR	63	-19.646	25.206	27.200	1.00 28.67	1DIK 529
MOTA	438	CB	TYR	63	-22.481	25.082	25.394	1.00 24.63	1DIK 530
MOTA	439	CG	TYR	63	-23.192	25.300	24.082	1.00 29.77	1DIK 531
ATOM	440	CD1		63	-23.806	26.529	23.795	1.00 29.27	
MOTA	441		TYR	63	-23.237	24.290			10IK 532
ATOM	442	CEI	TYR	63			23.116	1.00 27.48	10IK 533
ATOM	443	CE2			-24.444	26.748	22.576	1.00 31.57	1DIK 534
			TYR	63	-23.867	24.495 25.727	21.895	1.00 26.46	10IK 535
ATOM	444	CZ	TYR	63	-24.468	25.727	21.626	1.00 34.26	1DIK 536
MOTA	445	OH	TYR	63	-25.067	25.950	20.398	1.00 35.58	10IK 537
ATOM	446	N	PRO	64	-21.444	26.254	28.076	1.00 31.03	1DIK 538
ATOM	447	ÇA	PRO	64	-20.879	26.003	29.407	1.00 31.84	1DIK 539
ATOM	448	C	PRO	64	-20.849	24.482	29.625	1.00 32.43	10IK 540
MOTA	449	0	PRO	64	-21.547	23.728	28.932	1.00 30.67	
MOTA	450	CB	PRO	64	-21.891	26.670			
MOTA	451	CG	PRO	64			30.342	1.00 27.12	1DIK 542
ATOM	452	CD	PRO	64	-22.524	27.706	29.487	1.00 30.89	1DIK 543
					-22.706	27.004	28.181	1.00 27.90	101K 544
ATOM	453	N	THR	65	-20.042	24.011	30.564	1.00 35.27	1DIK 54S
MOTA	454	CA	THR	65	-20.038	22.579	30.830	1.00 37.08	1DIK 546
MOTA	455	C	THR	65	-21.375	22.333	31.507	1.00 38.68	1DIK 547
MOTA	456	0	THR	65	-21.897	23.224	32.185	1.00 35.35	10IK 548
MOTA	457	CB	THR	65	-18.897	22.170	31.774	1.00 35.91	1DIK 549
ATOM	458	OG 1	THR	65	-18.997	22.906	32.999	1.00 40.63	101K 550
ATOM	459	CG2		65	-17.544	22.438	31.116	1.00 35.54	10IK 551
ATOM	460	N	ASP	66					
ATOM	461	CA			-21.933	21.141	31.329	1.00 44.49	1DIK 552
			ASP	66	-23.222	20.806	31.935	1.00 48.12	1DIK 553
ATOM	462	C	ASP	66	-23.305	21.205	33.418	1.00 48.96	1DIK 554
MOTA	463	0	ASP	66	-24.299	21.789	33.858	1.00 48.33	1DIK 555
ATOM	464	CB	ASP	66	-23.513	19.309	31.782	1.00 50.94	10IK 556
MOTA	465	CG	ASP	66	-24.974	18.977	32.030	1.00 54.72	10IK 557
ATOM	466	OD1	ASP	66	-25.838	19.495	31.280	1.00 55.38	1DIK 558
MOTA	467	OD2		66	-25.255	18.206	32.977	1.00 55.13	1DIK 559
ATOM	468	N	SER	67	-22.262	20.895	34.180	1.00 47.71	1DIX 560
ATOM	469	CA	SER	67	-22.233				1DIK 561
ATOM	470	č	SER	67		21.247	35.587	1.00 46.65	
					-22.525	22.751	35.796	1.00 45.82	101K 562
MOTA	471	0	SER	67	-23.477	23.102	36.501	1.00 47.90	1DIK 563
MOTA	472	CB	SER	67	-20.875	20.861	36.172	1.00 45.81	·101K 564
ATOM	473	OG	SER	67	-20.769	21.285	37.516	1.00 51.18	1DIK 565
ATOM	474	N	LYS	68	-21.727	23.630	35.178	1.00 43.55	1DIK 566
ATOM	475	CA	LYS	68	-21.896	25.092	35.312	1.00 39.40	1DIK 567
MOTA	476	С	LYS	68	-23.201	25.626	34.753	1.00 37.75	1DIK 568
ATOM	477	ō	LYS	68	-23.760	26.578	35.301	1.00 36.03	10IK 569
ATOM	478	CB	LYS	68	-20.753	25.837	34.638	1.00 38.35	1DIK 570
ATOM	479	CG	LYS	68		25.837			1018 570
					-19.448	25.727	35.356	1.00 38.37	1DIK 571
MOTA	480	CD	LYS	68	-19.273	26.838	36.351	1.00 39.44	1DIK 572
ATOM	481	CE	LYS	68.	-17.830	26.847	36.833	1.00 44.75	1DIK 573
MOTA	482	NZ	LYS	68	-17.376	28.222	37.198	1.00 52.53	1DIK 574
MOTA	483	N	GLY	69	-23.675	25.022	33.664	1.00 35.27	1DIK 575
ATOM	484	CA	GLY	69	-24.928	25.439	33.058	1.00 38.22	10IK 576
MOTA	485	С	GLY	69	-26.073	25.358	34.054	1.00 41.32	10IK 577
ATOM	486	0	GLY	69	-26.947	26.228	34.057	1.00 41.17	1DIK 578
ATOM	487	N	LYS	70	-26.059	24.313	34.891	1.00 42.89	1DIK 579
MOTA	488	CA	LYS	70	-27.071	24.092	35.934	1.00 44.02	1DIK 580
ATOM	489	č	LYS	70	-27.075				
ATOH	490	õ	LYS	70		25.317	36.840	1.00 41.82	1DIK 581
					-28.110	25.959	37.043	1.00 42.10	10IX 582
ATOM	491	CB	LYS	70	-26.717	22.892	36.835	1.00 49.51	1DIK 583
MOTA	492	CG	LYS	70	-26.624	21.513	36.195	1.00 53.72	1DIK 584
MOTA	493	CD	LYS	70	-27.976	20.920	35.867	1.00 56.10	1DIK 585
MOTA	494	CE	LYS	70	-27.822	19.444	35.549	1.00 56.46	1DIK 586
MOTA	495	NZ	LYS	70	-28.950	18.940	34.717	1.00 58.23	1DIK 587
MOTA	496	N	LYS	71	-25.901	25.625	37.382	1.00 34.23	IDIK 588
ATOM	497	CA	LYS	71	-25.735	26.752	38.278	1.00 32.70	1DIK 589
MOTA	498	C	LYS	71	-26.157	28.070	37.644	1.00 32.77	1DIK 590
MOTA	499	0	LYS	71	-26.839	28.867	38.283	1.00 34.19	1DIK 591
ATOM	500	СB	LYS	71	-24.294	26.814	38.743	1.00 34.32	10IK 592
ATOM	501	CG	LYS	71					1DIK 593
					-23.848	25.549	39.465		
ATOM	502	CD	LYS	71	-22.365 -21.904	25.606 24.450	39.758	1.00 42.92	1DIK 594
ATOM	503	CE	LYS	71	-21.904	24.450	40.639	1.00 47.95	1DIK 595
ATOM	504	NZ	LYS	71	-20.408	24.463	40.789	1.00 52.26	1DIK 596
MOTA	505	И	TYR	72	-25.764	28.298	36.393	1.00 31.69	1DIK 597
ATOM	506	CA	TYR	72	-26.128	29.526	35.676	1.00 31.22	1DIK 598
MOTA	507	C	TYR	72	-27.642	29.636	35.580	1.00 32.50	1DIK 599
ATOM	508	õ	TYR	72	-28.232	30.663	35.916	1.00 31.20	1DIK 600
ATOM	509	ĊВ	TYR	72	-25.550	29.524	34.254	1.00 28.26	1DIK 601
ATOM	510	CG		72					
			TYR		-24.045	29.680	34.164	1.00 24.30	101K 602
ATOM	511	CDI		72	-23.278	30.037	35.282	1.00 21.92	1DIK 603
ATOM	512	CDS	TYR	72	-23.383	29.475	32.951	1.00 26.92	1DIK 604
ATOM	513	CEl	TYR	72	-21.894	30.186	35.192	1.00 21.95	101K 605
MOTA	514	CE2	TYR	72	-21.999	29.623	32.850	1.00 25.41	1DIK 606
MOTA	515	CZ	TYR	72	-21.265	29.977	33.971	1.00 26.50	1DIK 607
ATOM	516	OH	TYR	72	-19.904	30.124	33.860	1.00 31.12	1DIK 608
ATOM	517	N	SER	73	-28.262	28.562	35.114	1.00 34.91	1DIK 609
				. •	- 20 . 4 04	20.302	22.774	2.00 JT.JL	. 101K 903

ATOM	518	CA	SER	73	-29.705	28.498	34.965	1.00 37.19	1DIK 61
ATOM	519	č	SER	73	-30.430	28.745	36.286	1.00 36.76	1DIK 61
ATOM	520	Ō	SER	73	-31.337	29.576	36.367	1.00 39.80	IDIK 61
ATOM	521	CB	SER	73	-30.100	27.133	34.421	1.00 37.82	1DIK 61
MOTA	522	OG	SER	73	-31.450	27.151	34.001	1.00 48.85	1DIK 61
MOTA	523	N	ALA	74	-30.027	28.017	37.321	1.00 36.25	IDIK 61
MOTA	524	CA	ALA	74	-30.627	28.143	38.645	1.00 32.75	101K 61
MOTA MOTA	525 526	C	ALA	74 74	-30.544	29.585	39.162	1.00 33.94 1.00 37.43	1DIK 61
ATOM	527	СВ	ALA	74	-31.544 -29.929	30.156 27.196	39.607 39.612	1.00 37.43	1DIK 61 1DIK 61
ATOM	528	N	LEU	75	-29.352	30.169	39.094	1.00 31.82	1DIK 62
ATOM	529	CA	LEU	7.5	-29.130	31.529	39.552	1.00 30.28	1DIK 62
MOTA	530	С	LEU	75	-30.043	32.526	38.855	1.00 32.18	1DIK 62
MOTA	531	0	LEU	75	-30.553	33.460	39.483	1.00 33.24	1DIK 62
MOTA	532	CB	LEU	75	-27.669	31.929	39.343	1.00 27.09	1DIK 62
ATOM	533	CG	LEU	75 75	-27.340	33.380	39.705	1.00 31.49	1DIK 62
ATOM ATOM	534 535	CDI	LEU Leu	75 75	-27.680 -25.871	33.616 33.687	41.182 39.422	1.00 32.22 1.00 28.98	1DIK 62 1DIK 62
MOTA	536	N	ILE	76	-30.253	32.334	37.559	1.00 34.42	1DIK 62
ATOM	537	CA	ILE	76	-31.107	33.235	36.800	1.00 35.51	IDIK 62
ATOM	538	С	ILE	76	-32.581	33.100	37.187	1.00 38.20	1DIK 63
MOTA	539	0_	ILE	76	-33.287	34.104	37.290	1.00 37.73	1DIK 63
ATOM	540	CB	ILE	76	~30.897	33.040	35.271	1.00 35.44	1DIK 63
MOTA	541	CG1		76 76	-29.543	33.649	34.872	1.00 32.79	1DIK 63
ATOM ATOM	542 543	CG2	ILE	76	-32.051 -29.180	33.665 33.468	34.467 33.407	1.00 30.04 1.00 32.29	101K 63 101K 63
MOTA	544	N	GLU	77	-33.050	31.876	37.409	1.00 41.02	1DIK 63
ATOM	545	CA	GLU	77	-34.440	31.683	37.801	1.00 45.17	1DIK 63
ATOM	546	С	GLU	77	-34.630	32.291	39.166	1.00 45.15	1DIK 63
ATOM	547	0	GLU	77	-35.655	32.926	39.434	1.00 46.76	IDIK 63
ATOM	548	CB	GLU	77	-34.800	30.209	37.861	1.00 51.95	1DIK 64
ATOM	549	CG	GLU	77	-34.891	29.564	36.499	1.00 66.31	1DIK 64
MOTA MOTA	550 551	CD OE1	GLU	77 77	-35.578 -35.736	28.203 27.633	36.531 37.642	1.00 74.99	1DIK 64 1DIK 64
ATOM	552	OE2		לל	-35.960	27.702	35.443	1.00 79.43	1DIK 64
ATOM	553	N	GLU	78	-33.631	32.098	40.025	1.00 43.62	1DIK 64
ATOM	554	CY	GLU	78	-33.667	32.631	41.378	1.00 41.02	1DIK 64
MOTA	555	c	GLU	78	-33.758	34.155	41.364	1.00 38.09	1DIK 64
ATOM	556	0	GLU	78	-34.518	34.733	42.134	1.00 37.93	1DIK 64
MOTA	557	CB CG	GLU	78 78	-32.445	32.185	42.175	1.00 41.48	1DIK 64
MOTA MOTA	558 559	CD	GLU	78	-32.538 -31.261	32.616 32.413	43.621 44.414	1.00 49.04 1.00 53.16	1DIK 65 1DIK 65
ATOM	560	OE1		78	-30.551	31.404	44.174	1.00 56.49	1DIK 65
ATOM	561	OE2		78	-30.977	33.272	45.283	1.00 50.49	IDIK 65
ATOM	562	N	ILE	79	-32.989	. 34.810	40.501	1.00 36.46	1DIK 65
MOTA	563	ÇΆ	ILE	79	-33.059	36.265	40.400	1.00 37.33	IDIK 65
ATOM	564	c	ILE	79	-34.446	36.672	39.897	1.00 41.12	1DIK 65
MOTA	565	0	ILE	79	-35.034	37.648	40.374	1.00 43.28	10IK 65
ATOM ATOM	566 567	CB CG1	ILE	79 79	-32.003 -30.606	36.829 36.694	39.418	1.00 36.22 1.00 32.53	1DIK 65 1DIK 65
ATOM	568	CG2		79	-32.341	38.300	40.031 39.057	1.00 30.60	1DIK 66
ATOM	569	CDI		79	-29.481	37.029	39.088	1.00 28.25	1DIK 66
MOTA	570	N	GLN	80	-34.965	35.918	38.934	1.00 41.53	1DIK 66
MOTA	571	CA	GLN	80	-36.276	36.201	38.375	1.00 43.98	1DIK 66
MOTA	572	c	GLN	80	-37.399	36.074	39.392	1.00 48.10	1DIK 66
MOTA	573 574	О СВ	GLN	80 80	-38.450	36.687	39.228	1.00 51.13	1DIK 66
MOTA MOTA	575	CG	GLN	80	-36.549 -35.828	35.290 35.733	37.186 35.933	1.00 40.14	1DIK 66 1DIK 66
ATOM	576	ao	GLN	80	-35.983	34.751	34.792	1.00 42.01	1DIK 66
ATOM	577	OE1		80	-36.303	33.583	35.000	1.00 43.95	1DIK 66
MOTA	578	NE2		80	-35.753	35.220	33.577	1.00 40.77	1DIK 67
ATOM	579	N	GLN	81	-37.186	35.281	40.437	1.00 51.52	1DIK 67
ATOM	580	CA	GLN	81	-38.205	35.105	41.468	1.00 54.70	1DIK 67
MOTA MOTA	581 582	0	GLN GLN	81 81	-38.099 -39.089	36.109 36.717	42.611 43.004	1.00 54.45 1.00 57.66	1DIK 67 1DIK 67
MOTA	583	CB	GLN	81	-38.139	33.699	42.050	1.00 58.18	1DIK 67
ATOM	584	CG	GLN	81	-38.560	32.607	41.093	1.00 70.29	101K 67
ATOM	585	CD	GLN	81	-38.505	31.233	41.746	1.00 78.03	1DIK 67
MOTA	586	OE 1	GLN	81	-39.099	31.014	42.809	1.00 80.87	1DIK 67
MOTA	587		GLN	81	-37.790	30.300	41.116	1.00 80.03	1DIK 67
ATOM	588	N	ASN	82	-36.896	36.280	43.138	1.00 52.58	101X 68
MOTA	589	CA	ASN	82	-36.668	37.179	44.263	1.00 52.84	1DIX 68
MOTA MOTA	590 591	C	ASN ASN	82 82	-36.717 -37.110	38.688 39.445	44.013 44.905	1.00 53.31 1.00 53.72	1DIK 68 1DIK 68
ATOM	592	СB	ASN	82	-35.336	36.828	44.944	1.00 51.31	101K 68
ATOM	593	CG	ASN	82	-35.320	35.418	45.520	1.00 50.40	1DIK 68
ATOM	594	001	ASN	82	-36.250	34.629	45.312	1.00 46.50	1DIK 68
ATOM '	595		ASN	82	-34.257	35.092	46.246	1.00 48.14	101K 68
ATOM	596	. N	ALA	83	-36.316	39.133	42.823	1.00 55.26	1DIK 68
ATOM	597	CA	ALA	83	-36.300	40.566	42.518 42.326	1.00 54.90	101K 68
ATOM	598	C	ALA	83	-37.693	41.174	42.326	1.00 56.32	10IK 69
ATOM ATOM	599 600	СВ	ALA ALA	83 83	-38.545 -35.417	40.619 40.846	41.617 41.296	1.00 52.96 1.00 51.72	1DIK 69 1DIK 69
ATOM	601	N	THR	84	-37.905	42.320	42.974	1.00 58.60	1DIK 69
ATOM	602	CA	THR	84	-39.166	43.048	42.904	1.00 59.70	1DIK 69
									222 47

ATOM	603	C	THR	8 4	-39.170	44.025	41.730	1.00 60.59	1DIK 695
ATOM	604	0	THR	84	-40.212	44.256	41.116	1.00 63.43	1DIK 696
MOTA	605	CB	THR	84	-39.452	43.835	44.223	1.00 61.01	1DIK 697
MOTA	606	0G1	THR	84	-38.308	44.638	44.574	1.00 61.94	1DIK 698
ATOM	607	CG2	THR	84	-39.786	42.871	45.375	1.00 57.54	1DIK 699
ATOM	60B	N	THR	8.5	-38.011	44.595	41.410	1.00 60.26	1DIK 700
ATOM	609	CA	THR	8.5	-37.923	45.550	40.309	1.00 61.94	1DIX 701
ATOM	610	C	THR	8.5	-36.844	45.254	39.271	1.00 60.00	10IK 702
MOTA	611	0_	THR	8.5	-35.710	44.923	39.608	1.00 58.14	1DIK 703
ATOM	612	CB	THR	8.5	-37.714	46.973	40.844	1.00 64.54	1DIK 704
ATOM	613	OG1		85	-36.901	46.916	42.027	1.00 68.74	1DIK 705
ATOM	614	CGS		85	-39.062	47.627	41.167	1.00 64.69	1DIK 706
ATOM	615	N	PHE	86	-37.217	45.380	38.003	1.00 59.68	10IK 707
ATOM	616	CA	BHE	86	-36.301	45.143	36.895	1.00 59.09	1DIK 708
ATOM	617	Č	PHE	86	-36.308	46.366	35.988	1.00 58.32	1DIK 709
ATOM	618	0_	PHE	86	-36.829	46.298	34.880	1.00 58.58	1DIK 710
MOTA	619	CB	PHE	86	-36.752	43.940	36.055	1.00 59.17	10IK 711
ATOM	620	CG	PHE	86	-36.747	42.633	36.787	1.00 60.12	1DIK 712
atom Atom	621 622	CD1		86	-35.566	41.917	36.952	1.00 60.09	1DIK 713
ATOM	623	CEI		86 86	-37.928	42.103	37.294	1.00 58.71	1DIX 714
ATOM	624	CEZ		86	-35.564	40.685	37.614	1.00 62.46	1DIX 715
ATOM	625	cz	SHB	86	-37.939 -36.756	40.873	37.957	1.00 59.49	1DIX 716
ATOM	626	N	ASP	87	-35.743	40.162	38.117	1.00 59.88	1DIK 717
ATOM	627	CA	ASP	87	-35.745	47.484 48.672	36.432 35.576	1.00 59.28 1.00 61.03	1DIK 718
ATOM	628	c	ASP	87	-34.390	49.050	34.977	1.00 58.67	10IK 719
MOTA	629	ō	ASP	87	-33.331	48.696	35.503	1.00 56.33	1DIK 720 1DIK 721
ATOM	630	CB	ASP	87	-36.376	49.882	36.294	1.00 67.39	1DIK 722
ATOM .	631	CG	ASP	87	-35.731	50.181	37.634	1.00 74.12	101K 723
MOTA	632	OD1	ASP	87 -	-34.542	50.581	37.654	1.00 77.08	1DIX 724
ATOM	633	002	ASP	87	-36.422	50.017	38.670	1.00 76.76	1DIX 725
ATOM	634	N	GLY	88	-34.438	49.775	33.864	1.00 56.11	1DIK 726
MOTA	635	CA	GLY	88	-33.223	50.193	33.195	1.00 52.64	1DIK 727
MOTA	636	C	GLY	88	-32.521	49.004	32.565	1.00 50.66	1DIK 728
ATOM	637	0	GLY	88	-33.161	48.140	31.950	1.00 48.22	1DIK 729
MOTA	638	N	LYS	89	-31.202	48.957	32.734	1.00 47.80	1DIK 730
ATOM	639	CA	LYS	89	-30.376	47.885	32.188	1.00 45.18	101K 731
ATOM	640	C	LYS	89	-30.681	46.482	32.744	1.00 44.09	1DIK 732
ATOM	641	0_	LYS	B 9	-30.087	45.504	32.301	1.00 46.90	1DIK 733
ATOM	642	CB	LYS	89	-28.898	48.222	32.390	1.00 42.58	1DIK 734
ATOM	643	CG	LYS	89	-28.530	48.500	33.826	1.00 47.71	1DIK 735
MOTA	644	CD	LYS	89	-27.068	48.905	33.973	1.00 54.98	1DIK 736
ATOM ATOM	645 646	CE NZ	LYS	89	-26.737	49.253	35.426	1.00 56.55	1DIK 737
ATOM	647	N	LYS TYR	89 90	-25.293	49.611	35.610	1.00 61.03	1DIK 738
ATOM	648	CA	TYR	90	-31.594	46.382	33.705	1.00 38.46	1DIK 739
ATOM	649	č	TYR	90	-31.959 -33.269	45.095	34.277 33.699	1.00 35.36 1.00 38.19	1DIK 740
ATOM	650	ŏ	TYR	90	-33.709	44.568	34.042	1.00 38.19 1.00 36.65	1DIK 741 1DIK 742
ATOM	651	ČВ	TYR	90	-32.122	43.469 45.220	35.781	1.00 32.46	101K 743
ATOM	652	CG	TYR	90	-30.873	45.633	36.506	1.00 31.81	1DIX 744
ATOM	653	CD1	TYR	90	-29.901	44.693	36.851	1.00 32.85	1DIK 745
MOTA	654	CD2	TYR	90	-30.668	46.959	36.866	1.00 32.53	1DIK 746
ATOM	655		TYR	90	-28.754	45.066	37.539	1.00 29.82	101K 747
MOTA	656	CEZ		90	-29.528	47.351	37.553	1.00 32.39	1DIK 748
ATOM	657	CZ	IYR	90	-28.574	46.400	37.887	1.00 34.71	1DIK 749
MOTA	658	OH	TYR	90	-27.446	46.792	38.565	1.00 31.33	1DIK 750
MOTA	659	N	ALA	91	-33.891	45.351	32.820	1.00 41.63	1DIK 751
MOTA	660	CA	ALA	91	-35.168	44.978	32.218	1.00 40.63	1DIK 752
MOTA	661	Ç	ALA	91	-35.159	43.631	31.510	1.00 40.55	1DIK 753
MOTA	662	0_	ALA	91	-36.105	42.858	31.641	1.00 41.26	1DIK 754
ATOM	663	CB	ALA	91	-35.632	46.069	31.262	1.00 40.02	101K 755
ATOM	664	N.	PHE	92	-34.097	43.340	30.763	1.00 41.42	1DIK 756
MOTA	665	CY	PHE	92	-34.010	42.069	30.036	1.00 39.95	1DIX 757
MOTA MOTA	666 667	C	PHE	92	-34.164	40.849	30.938	1.00 38.42	1DIX 758
ATOM	668	СB	PHE	92 92	-34.726	39.836	30.526	1.00 36.46	1DIK 759
ATOM	669	CG	PHE	92	-32.677	41.972	29.287	1.00 38.12	1DIK 760
ATOM	670		PHE	92	-31.499 -30.861	41.624	30.163 30.919	1.00 36.18	1DIK 761
ATOM	671	CDS		92	-31.018	42.606	30.215	1.00 32.76 1.00 34.57	1DIK 762 1DIK 763
ATOM	672	CEI		92	-29.760	40.314	31.713	1.00 34.09	1DIK 763
ATOM	673		PHE	92	-29.917	42.297 39.991	31.006	1.00 33.52	1DIR 765
ATOM	674	CZ	PHE	92	-29.284	40.988	31.759	1.00 34.32	101K 765
ATOM	675	N	LEU	93	-33.657	40.961	32.164	1.00 39.65	101K 767
ATOM	676	ĈA	LEU	93	-33.707	39.877	33.143	1.00 42.68	1DIK 768
ATOM	677	č.	LEU	93	-35.097	39.376	33.504	1.00 46.01	101K 769
ATOM	678	ŏ	LEU	93	-35.271	38.199	33.839	1.00 46.08	10IK 770
ATOM	679	CB	LEU	93	-32.981	40.284	34.428	1.00 39.70	10IK 771
ATOM	680	CG	LEU	93	-31.479	39.991	34.430	1.00 38.98	10IK 772
MOTA	681		LEU	93	-30.805	40.641	35.632	1.00 37.62	19IK 773
ATOM	682		LEU	93	-31.258	38.480	34.419	1.00 35.20	101K 774
ATOM	683	N	LYS	94	-36.085	40.257	33.437	1.00 50.11	10IK 775
ATOM	684	CA	LYS	94	-37.445	39.874	33.437 33.780	1.00 54.55	1DIK 776
ATOM	685	C	LYS	94	-37.938	39.874 38.709	32.915	1.00 54.53	10IK 777
ATOM	686	0	LYS	94	-38.651	37.831	33.402	1.00 56.72	1DIK 778
ATOM	687	CB	LYS	94	-38.380	41.087	33.663	1.00 59.55	1DIK 779

ATOM	689	CG	LYS	94	-39.736	40.899	34.322	1.00 66.52	1DIK 780
ATOM	689	CD	LYS	94	-40.436	42.236	34.556	1.00 71.87	10IK 781
ATOM	690	CE	LYS	94	-41.818	42.031	35.189	1.00 75.09	1DIK 782
ATOM	691	NZ	LYS	94	-42.493	43.320	35.533	1.00 75.30	1DIK 783
MOTA	692	N	THR	95	-37.549	38.687	31.643	1.00 52.52	1DIK 784
ATOM	693	CA	THR	95	-37.991	37.622	30.748	1.00 50.56	1DIK 785
MOTA	694	C	THR	95	-36.902	36.850	30.009	1.00 49.46	1DIK 786
MOTA	695	0	THR	95	-37.177	36.258	28.960	1.00 48.63	1DIK 787
MOTA	696	CB	THR	95	-38.962	38.168	29.700	1.00 52.17	1DIK 788
ATOM	697	OG1	THR	95	-38.366	39.295	29.039	1.00 48.18	1DIK 789
ATOM	698	CG2	THR	95	-40.272	38.574	30.357	1.00 54.41	1DIK 790
ATOM	699	H	TYR	96	-35.676	36.855	30.531	1.00 47.27	10IK 791
ATOM	700	CA	TYR	96	-34.582	36.119	29.894	1.00 44.27	1DIK 792
MOTA	701	С	TYR	96	-34.863	34.613	29.997	1.00 44.70	1DIK 793
ATOM	702	0	TYR	96	-35.227	34.107	31.060	1.00 43.58	10IK 794
ATOM	703	CB	TYR	96	-33.236	36.456	30.550	1.00 37.81	1DIK 795
MOTA	704	CG	TYR	96	-32.071	35.699	29.957	1.00 34.72	1DIK 796
MOTA	705		TYR	96	-31.362	36.208	28.866	1.00 38.16	1DIK 797
MOTA	706	CD2	TYR	96	-31.683	34.465	30.474	1.00 35.36	1DIK 798
MOTA	707	CEI	TYR	96	~30.290	35.499	28.302	1.00 37.21	1DIK 799
MOTA	70B	CE2	TYR	96	-30.620	33.747	29.923	1.00 37.79	1DIX 800
MOTA	709	CZ	TYR	96	-29.929	34.269	28.839	1.00 39.34	1DIX 801
MOTA	710	OH	TYR	96	-28.882	33.557	28.303	1.00 37.35	1DIX 802
MOTA	711	N	ASN	97	-34.694	33.903	28.888	1.00 43.16	1DIK 803
MOTA	712	CA	ASN	97	-34.937	32.471	28.859	1.00 45.14	1DIK 804
MOTA	713	C	ASN	97	-33.617	31.744	28.554	1.00 45.53	101K 805
MOTA	714	0	ASN	97	-33.097	31.838	27.436	1.00 46.50	1DIK 806
MOTA	715	CB	ASN	97	-35.988	32.167	27.788	1.00 50.43	1DIK 807
MOTA	716	CG.	ASN	97	-36.536	30.758	27.895	1.00 58.07	1DIK 808
MOTA	717	OD1		97	-36.630	30.191	28.991	1.00 62.08	101K 809
ATOM	718			97 98	-36.905	30.179	26.755	1.00 59.47	1DIK 810
ATOM	719 720	N C	TYR	98	-33.079 -31.814	31.035	29.550 29.413	1.00 42.20 1.00 39.67	101K 811 101K 812
MOTA		CA	TYR TYR	98	-31.937	30.308 29.149	28.430	1.00 39.43	1DIK 813
ATOM ATOM	721 722	ŏ	TYR	98	-32.589	28.156	28.719	1.00 42.93	1DIK 814
ATOM	723	CB	TYR	98	-31.357	29.772	30.775	1.00 35.56	101K 81S
ATOM	724	CG	TYR	98	-29.955	29.201	30.763	1.00 34.67	1DIK 816
ATOM	725		TYR	98	-29.720	27.862	30.440	1.00 33.36	1DIK 817
MOTA	726		TYR	98	-28.857	30.004	31.067	1.00 30.84	1DIK 818
MOTA	727		TYR	98	-28.421	27.343	30.421	1.00 33.02	1DIK 819
ATOM	728	CEZ		98	-27.564	29.496	31.053	1.00 31.68	1DIK 820
ATOM	729	CZ	TYR	98	-27.351	28.167	30.731	1.00 32.17	1DIK 821
MOTA	730	OH	TYR	98	-26.071	27.673	30.742	1.00 31.22	1DIK 822
MOTA	731	N	SER	99	-31.304	29.267	27.272	1.00 41.23	1DIK 823
ATOM	732	CA	SER	99	-31.395	28.211	26.277	1.00 42.13	1DIK 824
MOTA	733	C	SER	99	-30.043	27.782	25.699	1.00 41.05	1DIK 825
ATOM	734	0	SER	99	-29.972	27.293	24.572	1.00 39.39	1DIK 826
MOTA	735	CB	SER	99	-32.340	28.645	25.148	1.00 43.93	1DIK 827
MOTA	736	OG	SER	99	-31.869	29.828	24.518	1.00 44.91	1DIK 828
ATOM	737	N	LEU	100	-28.970	27.964	26.464	1.00 38.89	1DIK 829
MOTA	738	CA	LEU	100	-27.647	27.561	25.999	1.00 36.71	1DIK 830
MOTA	739	c	LEU	100	-27.555	26.038	26.067	1.00 35.82	1DIK 831
ATOM	740	0	LEU	100	-28.181	25.425	26.932	1.00 37.24	1DIK 832
MOTA	741	CB	LEU	100	-26.548	28.175	26.878	1.00 33.03	1DIK 833
ATOM	742	CG	LEU	100	-26.381	29.694	26.799	1.00 33.85	1DIK 834
ATOM	743		LEU	100	-25.272	30.149	27.725	1.00 30.27	1DIK 835
ATOM	744		LEU	100	-26.063	30.090	25.375	1.00 33.01	1DIK 836
ATOM	745	N	GLY	101	-26.789	25.437	25.153	1.00 34.71	1DIK 837 1DIK 838
ATOM	746	CA	GLY	101	-26.585	23.999	25.169	1.00 29.13	1DIK 839
ATOM	747 748	C	GLY	101 101	-25.572 -25.410	23.673	26.270 27.227	1.00 31.41	10IK 840
ATOM ATOM	749	N	ALA	102	-24.875	22.547	26.163	1.00 30.11	1DIK 841
ATOM	750	CA	ALA	102	-23.892	22.20B	27.180	1.00 29.75	1DIK 842
MOTA	751	č	ALA	102	-22.745	21.409	26.581	1.00 29.60	1DIK 843
ATOM	752	ŏ	ALA	102	-22.943	20.675	25.622	1.00 32.26	1DIK 844
ATOM	753	СB	ALA	102	-24.556	21.423	28.318	1.00 26.45	101K B45
ATOM	754	N	ASP	103	-21.553	21.578	27.148	1.00 29.83	1DIK 846
MOTA	755	CA	ASP	103	-20.329	20.868	26.756	1.00 31.04	1DIK 847
ATOM	756	c	ASP	103	-19.817	20.909	25.318	1.00 29.41	1DIK 848
MOTA	757	ŏ	ASP	103	-18.603	20.919		1.00 26.94	10IK 849
MOTA	758	СВ	ASP	103	-20.425	19.391	25.093 27.175	1.00 32.82	1DIK 850
MOTA	759	ČĞ	ASP	103	-20.685	19.213	28.665	1.00 37.87	1DIK 851
ATOM	760		ASP	103	-19.906	19.738	29.490	1.00 39.37	1DIK 852
ATOM	761		ASP	103	-21.677	18.540	29.013	1.00 39.81	1DIK 853
ATOM	762	N	ASP	104	-20.723	20.924	24.351	1.00 28.43	101K 854
HOTA	763	Ċλ	ASP	104	-20.356	20.891	22.954	1.00 29.73	10 IK 855
MOTA	764	c	ASP	104	-19.720	22.127	22.382	1.00 30.60	1DIK 856
MOTA	765	ō	ASP	104	-19.830	23.226	22.925	1.00 32.58	1DIK 857
ATOM	766	СВ	ASP	104	~21.581	20.573	22.096	1.00 37.28	101K 858
ATOM	767	CG	ASP	104	-22.117	19.176	22.321	1.00 43.64	10 IK 859
ATOM	768		ASP	104	-21.308	18.243	22.545	1.00 45.93	1DIK 860
ATOM	769		ASP	104	-23.358	19.019	22.268	1.00 49.65	1DIK 861
ATOM	770	N	LEU	105	-19.053	21.915	21.257	1.00 27.70	1DIK 862
ATOM	771	CA	LEU	105	-18.432	22.973	20.491	1.00 27.87	. 1DIK 863,
MOTA	172	Č.	LEU	105	-19.642	22.973 23.744	19.933	1.00 29.06	1DIK 864
	_		_	-					

ATOM 771 CB LEU 105 -70.626 22.116 19.511 1.00 27.73 101X 855 ATOM 771 CB LEU 105 -1.669 22.127 19.314 1.00 27.83 101X 855 ATOM 771 CB LEU 105 -1.6.474 231.000 18.735 1.00 27.83 101X 865 ATOM 771 CD LEU 105 -1.6.474 231.000 18.735 1.00 27.83 101X 867 ATOM 771 CD LEU 105 -1.5.730 23.000 18.755 1.00 27.83 101X 867 ATOM 771 CD LEU 105 -1.5.750 231.000 18.755 1.00 27.83 101X 867 ATOM 771 CD LEU 105 -1.5.750 231.000 18.755 1.00 27.83 101X 870 ATOM 771 CD LEU 105									
ATOM 774 CB LEU 105 -17.668 22.327 19.334 1.00 27.40 10 X 886 X ATOM 775 CD LEU 105 -16.474 22.00 10.571 1.00 27.40 10 X 886 X ATOM 775 CD LEU 105 -16.474 22.00 10.571 1.00 27.40 10 X 886 X ATOM 775 CD LEU 105 -16.474 22.00 10.571 1.50 1.00 27.50 10 X 886 X ATOM 778 N THR 106 -19.599 22.073 19.317 1.00 28.71 10 X 876 X ATOM 779 CA THR 106 -20.714 23.946 19.588 1.00 31.50 10 X 866 X ATOM 779 CA THR 106 -20.714 23.946 19.588 1.00 31.50 10 X 871 X ATOM 779 CA THR 106 -20.714 23.946 19.588 1.00 31.50 10 X 871 X ATOM 780 CD THR 106 -20.462 24.060 17.588 1.00 31.50 10 X 871 X ATOM 781 CD THR 106 -20.462 24.060 17.588 1.00 31.50 10 X 871 X ATOM 781 CD THR 106 -20.462 24.060 17.588 1.00 31.50 10 X 871 X ATOM 781 CD THR 106 -20.462 25.866 17.588 1.00 32.51 10 X 871 X ATOM 781 CD THR 106 -20.462 25.866 17.588 1.00 32.51 10 X 871 X ATOM 781 CD THR 106 -20.462 25.866 17.588 1.00 28.51 10 X 871 X ATOM 781 CD THR 106 -20.462 25.866 17.588 1.00 28.51 10 X 871 X ATOM 781 CD THR 106 CD THR 10	ATOM	773	O LEU	105	-20 626	22 116	10 531	1 00 17 77	1074 000
ATOM 775 CG LEU 105 -16.474 23.040 18.736 1.00 27.83 100 X 887 ATOM 775 CG LEU 105 -15.518 23.168 19.855 1.00 33.07 10 X 887 ATOM 778 CG THR 106 -20.714 23.848 19.358 1.00 32.757 10 X 887 ATOM 778 CG THR 106 -20.714 23.848 19.358 1.00 22.757 10 X 869 ATOM 778 CG THR 106 -20.462 26.060 17.858 1.00 33.52 10 X 877 ATOM 780 CG THR 106 -20.462 26.060 17.858 1.00 33.52 10 X 877 ATOM 780 CG THR 106 -20.462 26.060 17.858 1.00 33.52 10 X 877 ATOM 780 CG THR 106 -20.462 26.060 17.858 1.00 33.52 10 X 877 ATOM 780 CG THR 106 -20.462 26.060 17.858 1.00 33.52 10 X 877 ATOM 780 CG THR 106 -20.462 26.060 17.858 1.00 33.52 10 X 877 ATOM 781 CG THR 106 -21.891 77.254 20.000 1.00 32.51 10 X 877 ATOM 781 CG THR 106 -21.891 77.254 20.000 1.00 32.51 10 X 877 ATOM 782 CG THR 106 -21.891 77.254 20.000 1.00 32.51 10 X 877 ATOM 782 CG THR 106 -21.891 77.254 20.000 1.00 32.51 10 X 877 ATOM 782 CG PRO 107 -21.503 26.448 17.098 1.00 30.71 10 X 877 ATOM 787 CG PRO 107 -21.503 26.448 17.098 1.00 30.71 10 X 877 ATOM 787 CG PRO 107 -21.503 26.448 17.098 1.00 30.71 10 X 877 ATOM 787 CG PRO 107 -21.503 26.448 17.098 1.00 30.71 10 X 877 ATOM 788 CG PRO 107 -21.503 26.448 17.098 1.00 30.71 10 X 877 ATOM 788 CG PRO 107 -21.503 26.448 17.098 1.00 30.71 10 X 877 ATOM 788 CG PRO 107 -21.503 26.493 16.163 1.00 27.888 10 X 877 ATOM 789 CG PRO 107 -21.503 26.493 16.163 1.00 27.888 10 X 877 ATOM 789 CG PRO 107 -21.503 26.493 16.163 1.00 27.666 10 X 878 ATOM 799 CG PRO 107 -21.503 26.493 16.163 1.00 27.666 10 X 878 ATOM 799 CG PRO 107 -21.503 26.493 16.163 1.00 27.666 10 X 888 ATOM 799 CG PRO 107 -21.600 26.493 16.163 1.00 27.666 10 X 888 ATOM 799 CG PRO 107 -21.600 26.493 16.163 1.00 27.666 10 X 888 ATOM 799 CG PRO 107 -21.600 26.493 16.163 1.00 22.52 20 10 X 886 ATOM 799 CG PRO 107 -21.600 26.493 16.163 1.00 22.52 20 10 X 886 ATOM 799 CG PRO 107 -21.600 26.200 10 X 889 ATOM 799 CG PRO 107 -21.600 26.200 10 X 889 ATOM 799 CG PRO 107 -21.600 26.200 10 X 889 ATOM 799 CG PRO 107 -21.600 26.200 10 X 889 ATOM 799 CG PRO 107 -21.600 26.200 10 X 889 ATOM 799 CG									
ATOM 775 CD1 LEU 105 -15.518 22.368 19.855 1.00 33.80 100 85 86 86 86 86 86 86 86 86 86 86 86 86 86		775							
ATOM 779 N. THE 106 -19.599 25.073 19.917 1.00 28.75 100 K 970 ATOM 778 N. THE 106 -20.714 23.86 13.538 1.00 28.75 110 DIX 870 ATOM 781 O THE 106 -20.714 23.86 13.538 1.00 28.75 110 DIX 870 ATOM 781 O THE 106 -20.714 23.86 13.538 1.00 28.75 110 DIX 871 ATOM 782 O THE 106 -20.899 27.256 20.001 1.00 22.43 101K 871 ATOM 781 OT THE 106 -20.899 27.256 20.001 1.00 22.43 101K 871 ATOM 782 OCT THE 106 -20.899 27.256 20.001 1.00 22.43 101K 871 ATOM 782 OCT THE 106 -20.899 27.256 20.001 1.00 22.43 101K 871 ATOM 782 OCT THE 106 -20.899 27.256 20.001 1.00 22.43 101K 873 ATOM 782 OCT THE 106 -20.899 27.256 20.001 1.00 22.43 101K 873 ATOM 782 OCT THE 106 -20.899 27.256 20.001 1.00 22.43 101K 873 ATOM 782 OCT THE 106 -20.899 27.256 20.001 1.00 22.43 101K 873 ATOM 782 OCT THE 106 -20.899 27.256 20.001 1.00 22.43 101K 873 ATOM 782 OCT THE 107 ATOM 783 OC					-15.518				
ATOM 778 A THE 106 -19.3599 25.073 19.517 1.00 28.75 101K 970 ATOM 788 C THE 106 -21.52 25.62 20.001 1.00 29.15 101K 970 ATOM 781 C THE 106 -21.52 25.62 20.001 1.00 29.15 101K 971 ATOM 782 C THE 106 -21.52 25.62 20.001 1.00 29.15 101K 971 ATOM 782 C THE 106 -21.53 25.62 20.001 1.00 29.15 101K 971 ATOM 782 C THE 106 -21.53 25.62 20.001 1.00 29.15 101K 973 ATOM 782 C THE 106 -21.55 25.62 20.001 1.00 29.15 101K 973 ATOM 782 C THE 106 -21.55 25.62 20.001 1.00 29.15 101K 973 ATOM 783 C THE 106 -21.55 25.62 20.001 1.00 29.15 101K 973 ATOM 784 C THE 106 -21.55 25.62 20.001 1.00 29.15 101K 973 ATOM 785 C A PRO 107 -21.1312 26.680 15.658 1.00 28.88 1.00 28.88 101K 973 ATOM 785 C A PRO 107 -21.1312 26.680 15.658 1.00 28.88 1.00 28.88 101K 973 ATOM 785 C A PRO 107 -21.1312 26.680 15.658 1.00 28.88 1.00 28.88 101K 973 ATOM 789 C G PRO 107 -21.1312 26.680 15.658 1.00 28.88 1.00 28.88 101K 973 ATOM 789 C G PRO 107 -21.1312 26.680 15.658 1.00 28.88 101K 973 ATOM 789 C G PRO 107 -22.910 26.662 17.461 1.00 27.68 101K 978 ATOM 799 C G PRO 107 -22.910 26.662 17.461 1.00 27.68 101K 978 ATOM 799 C G PRO 107 -22.910 26.662 17.461 1.00 28.455 101K 980 ATOM 799 C G PRO 107 -22.910 26.662 17.461 1.00 28.455 101K 980 ATOM 799 C G PRO 107 -22.910 26.662 17.461 1.00 28.455 101K 980 ATOM 799 C G PRO 107 -22.910 26.662 17.461 1.00 28.455 101K 980 ATOM 799 C G PRO 107 -22.910 26.662 17.461 1.00 28.455 101K 980 ATOM 799 C G PRO 107 -22.910 26.662 17.461 1.00 28.455 101K 980 ATOM 799 C G PRO 107 -22.910 26.662 17.461 1.00 28.455 101K 980 ATOM 799 C G PRO 107 -22.910 26.662 17.461 1.00 28.455 101K 980 ATOM 799 C G PRO 107 -22.910 28.255 10.650 10.00 28.60 101K 980 ATOM 799 C G PRO 107 -22.910 28.255 10.650 10.00 28.60 101K 980 ATOM 799 C G PRO 107 -22.910 28.255 10.650 10.00 28.60 101K 980 ATOM 799 C G PRO 107 -22.910 28.60 101K 980 ATOM 799 C G PRO 107 -22.910 28.60 101K 980 ATOM 799 C G PRO 107 -22.910 28.60 101K 980 ATOM 799 C G PRO 107 -22.910 28.910 101K 980 ATOM 799 C G PRO 107 -22.910 101K 980 ATOM 799 C G PRO 107 -22.910 101K 980 ATOM 7									
ATOM 781 CA FIRE 106 -20.714 23.846 13.358 1.00 28.71 101K 871 ATOM 781 CA FIRE 106 -19.031 25.06 11.858 1.00 28.71 101K 871 ATOM 781 CA FIRE 106 -19.031 25.06 11.858 1.00 28.94 101K 873 ATOM 781 CA FIRE 106 -19.031 27.04 11.05 1.00 27.42 101K 873 ATOM 781 CA FIRE 106 -19.031 27.04 11.05 1.00 27.42 101K 873 ATOM 781 CA FIRE 106 -19.031 27.164 21.495 1.00 27.42 101K 873 ATOM 781 CA FIRE 106 -19.031 27.164 21.495 1.00 27.42 101K 873 ATOM 781 CA FIRE 106 C. 11.031 27.164 21.495 1.00 27.52 101K 874 ATOM 781 CA FIRE 107 C. 11.032 27.103 101K 873 ATOM 783 CA FIRE 107 C. 11.032 27.103 101K 873 ATOM 783 CA FIRE 107 C. 11.032 27.103 11.00 27.52 101K 873 ATOM 783 CA FIRE 107 C. 11.032 27.103 11.00 27.53 11.00 27.53 101K 873 ATOM 783 CA FIRE 107 C. 11.032 27.103 11.00 27.55 101K 873 ATOM 783 CA FIRE 107 C. 11.032 27.103 11.00 27.55 101K 873 ATOM 783 CA FIRE 107 C. 11.032 27.103 11.00 27.55 101K 881 ATOM 783 CA FIRE 108 C. 11.032 27.203 11.528 1.00 22.578 101K 881 ATOM 793 CA FIRE 108 C. 11.032 27.203 11.528 1.00 22.528 101K 881 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 881 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.042 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.052 11.00 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 C. 11.052 11.00 27.203 11.00 22.528 101K 885 ATOM 793 CA FIRE 108 CA FIRE							19.917	1.00 28.75	
ATOM 781 0 THR 106 -19.338 25.863 17.369 1.00 32.15 101K 974 ATOM 782 CB THR 106 -19.581 28.044 19.638 1.00 28.94 101K 974 ATOM 781 CB THR 106 -19.581 28.044 19.638 1.00 28.94 101K 974 ATOM 781 CB THR 106 -19.581 28.044 19.638 1.00 28.94 101K 974 ATOM 787 CA PRO 107 -21.312 26.880 15.688 1.00 28.98 101K 974 ATOM 787 CB PRO 107 -21.312 26.880 15.688 1.00 28.88 101K 978 ATOM 787 CB PRO 107 -21.312 26.880 15.688 1.00 28.88 101K 978 ATOM 788 CB PRO 107 -21.312 26.880 15.688 1.00 28.88 101K 978 ATOM 788 CB PRO 107 -21.312 26.880 15.688 1.00 28.78 101K 978 ATOM 789 CB PRO 107 -21.312 26.880 15.688 1.00 27.78 101K 879 ATOM 789 CB PRO 107 -21.312 26.880 15.688 1.00 27.78 101K 879 ATOM 789 CB PRO 107 -22.910 26.662 17.481 1.00 28.67 18.00 18.87 ATOM 791 CD PRO 107 -22.910 26.662 17.481 1.00 28.67 18.10 18.81 ATOM 792 CB PRO 107 -22.910 26.662 17.481 1.00 28.65 101K 881 ATOM 793 CA PRE 108 -19.215 29.729 16.151 1.00 22.62 101K 885 ATOM 793 CB PRE 108 -19.665 29.729 16.151 1.00 22.62 101K 885 ATOM 795 CB PRE 108 -19.225 20.082 26.77 16.151 1.00 22.62 101K 885 ATOM 795 CB PRE 108 -19.225 20.082 277 16.255 1.00 23.51 101K 884 ATOM 795 CB PRE 108 -19.225 20.082 277 16.255 1.00 23.51 101K 884 ATOM 796 CB PRE 108 -19.225 20.082 277 16.255 1.00 22.62 101K 885 ATOM 798 CD PRE 108 -19.225 20.082 277 16.255 1.00 22.62 101K 886 ATOM 798 CD PRE 108 -19.225 20.083 17.71 195 1.00 22.52 101K 886 ATOM 798 CD PRE 108 -19.225 20.083 17.71 195 1.00 22.52 101K 886 ATOM 798 CD PRE 108 -19.225 20.083 17.71 195 1.00 22.52 101K 886 ATOM 800 CC PRE 108 -17.889 32.749 16.351 1.00 22.777 101K 882 ATOM 801 CC PRE 108 -17.889 32.591 11.00 22.577 101K 893 ATOM 802 CA CLU PRE 108 -17.893 22.741 16.225 1.00 24.81 101K 893 ATOM 803 CA CLU 109 -17.597 28.164 17.380 1.00 22.777 101K 893 ATOM 803 CA CLU 109 -17.597 28.164 17.380 1.00 22.777 101K 893 ATOM 803 CA CLU 109 -17.597 28.164 17.380 1.00 22.777 101K 893 ATOM 803 CA CLU 109 -17.597 28.164 17.380 1.00 22.777 101K 893 ATOM 804 CA CLU 109 -17.597 28.164 17.380 1.00 22.777 101K 893 ATOM 805 CA CLU 104 -									
ATOM 782 C8 THR 106 -20.849 27.256 20.001 1.00 29.41 101K 975 ATOM 783 CG THR 106 -19.591 22.044 19.598 1.00 28.94 101K 975 ATOM 783 CG THR 106 -21.034 27.166 21.496 1.00 27.82 101K 975 ATOM 783 CG THR 106 -21.034 27.166 21.496 1.00 27.82 101K 975 ATOM 785 C PRO 107 -21.1312 26.00 15.581 1.00 27.50 101K 975 ATOM 786 C PRO 107 -20.169 27.593 13.406 1.00 27.50 101K 975 ATOM 786 C PRO 107 -20.169 27.593 13.406 1.00 27.50 101K 976 ATOM 787 C PRO 107 -20.169 27.593 13.406 1.00 27.50 101K 976 ATOM 789 C PRO 107 -22.597 27.203 15.218 1.00 25.78 101K 882 ATOM 789 C PRO 107 -22.597 27.203 15.218 1.00 25.78 101K 882 ATOM 789 C PRO 107 -22.597 27.203 15.218 1.00 25.78 101K 882 ATOM 789 C PRO 107 -22.597 27.203 15.218 1.00 25.78 101K 882 ATOM 789 C PRO 108 -20.92 26.727 16.245 1.00 23.11 101K 884 ATOM 789 C PRO 108 -10.015 27.29 10 26.42 11.10 27.65 101K 882 ATOM 789 C PRO 108 -10.015 27.29 10 26.42 11.10 27.65 101K 882 ATOM 789 C PRO 108 -10.015 27.29 10 26.42 11.10 27.62 101K 882 ATOM 789 C PRO 108 -10.015 27.29 10 10.01 10.00 27.62 101K 882 ATOM 789 C PRO 108 -10.015 27.29 10 10.00 27.20 10 10 882 ATOM 789 C PRO 108 -10.015 27.29 10 10.00 27.20 10 10 882 ATOM 789 C PRO 108 -10.015 27.29 10 10.00 27.20 10 10 882 ATOM 789 C PRO 108 -10.10 10 10 10 10 10 10 10 10 10 10 10 10 1									
ATOM 786 CG2 THR 106 -19.591 28.604 19.598 1.00 28.94 101K 976 ATOM 786 CG2 THR 105 -21.034 27.164 21.098 1.00 30.71 101K 976 ATOM 787 CG PRO 107 -21.503 26.448 17.098 1.00 30.71 101K 976 ATOM 789 C PRO 107 -21.503 26.448 17.098 1.00 30.71 101K 976 ATOM 789 C PRO 107 -21.512 26.498 17.098 1.00 30.71 101K 976 ATOM 789 C PRO 107 -21.512 26.593 15.608 1.00 23.788 101K 978 ATOM 789 C PRO 107 -22.619 27.531 14.464 1.00 30.80 101K 880 ATOM 789 C PRO 107 -22.619 27.531 14.464 1.00 30.80 101K 881 ATOM 789 C PRO 107 -22.619 27.531 14.464 1.00 30.80 101K 881 ATOM 789 C PRO 107 -22.619 27.531 14.464 1.00 27.66 101K 881 ATOM 789 C PRO 107 -23.610 26.495 16.163 1.00 27.66 101K 881 ATOM 789 C PRO 107 -23.610 26.495 16.163 1.00 27.56 101K 881 ATOM 789 C PRE 108 -19.015 29.729 16.151 1.00 27.56 101K 882 ATOM 789 C PRE 108 -19.015 29.729 16.151 1.00 27.55 101K 883 ATOM 789 C PRE 108 -19.015 29.729 16.151 1.00 22.62 101K 883 ATOM 789 C PRE 108 -19.015 29.729 16.151 1.00 22.62 101K 883 ATOM 789 C PRE 108 -19.62 30.92 25.729 16.151 1.00 22.62 101K 883 ATOM 789 C PRE 108 -19.62 30.92 16.161 1.00 22.62 101K 883 ATOM 789 C PRE 108 -17.644 29.059 16.303 1.00 25.00 101K 883 ATOM 789 C PRE 108 -17.644 29.159 16.60 16.50 100K 882 ATOM 789 C PRE 108 -17.64 29.159 16.100 16.25 10.00 25.00 101K 883 ATOM 789 C PRE 108 -17.64 29.159 16.100 16.25 10.00 25.00 101K 883 ATOM 789 C PRE 108 -17.64 29.159 16.100 16.25 10.00 25.00 101K 883 ATOM 800 C PRE 108 -17.64 29.159 16.100 16.25 10.00 25.00 101K 883 ATOM 800 C PRE 108 -17.64 29.159 16.100 16.25 10.00 25.00 101K 883 ATOM 800 C PRE 108 -17.65 19.25 19.25 16.60 16.151 10.00 25.50 101K 883 ATOM 800 C PRE 108 -17.65 19.25 19.25 10.00 25.00 101K 883 ATOM 800 C PRE 108 -17.65 19.25 19.25 19.25 10.00 25.00 101K 883 ATOM 800 C PRE 108 -17.65 19.25 19									
ATOM 784 CG2 THR 106 -21.034 27.164 21.495 1.00 27.82 101K 877 ATOM 787 C					-10.849				
ATOM 785 N PRO 107 -21.503 26.448 17.098 1.00 30.71 101K 878 ATOM 786 CA PRO 107 -21.312 26.498 15.406 1.00 37.50 101K 878 ATOM 787 C PRO 107 -20.189 27.693 15.406 1.00 27.50 101K 878 ATOM 789 CB PRO 107 -20.189 27.693 15.406 1.00 37.50 101K 870 ATOM 789 CB PRO 107 -20.189 27.693 15.406 1.00 37.50 101K 870 ATOM 789 CB PRO 107 -23.610 27.531 16.216 1.00 27.50 101K 880 ATOM 789 CB PRO 107 -23.610 27.531 16.216 1.00 27.50 101K 880 ATOM 789 CB PRO 107 -23.610 27.531 16.216 1.00 27.50 101K 880 ATOM 790 CB PRO 107 -23.610 27.531 16.216 1.00 27.50 101K 883 ATOM 792 N PRE 108 -20.082 28.727 16.245 1.00 23.11 101K 883 ATOM 795 CB PRE 108 -10.015 27.29 16.311 1.00 27.62 101K 882 ATOM 795 CB PRE 108 -10.65 23.035 16.383 1.00 25.260 101K 885 ATOM 795 CB PRE 108 -1.6.657 23.035 16.383 1.00 25.260 101K 885 ATOM 795 CB PRE 108 -1.6.663 31.794 17.312 1.00 25.13 101K 888 ATOM 795 CB PRE 108 -1.6.663 31.794 17.312 1.00 25.13 101K 888 ATOM 795 CB PRE 108 -1.7.819 27.743 16.225 1.00 24.81 101K 883 ATOM 796 CB PRE 108 -1.7.819 27.743 16.225 1.00 24.81 101K 883 ATOM 797 CC PRE 108 -1.7.819 27.743 16.225 1.00 24.81 101K 883 ATOM 798 CC PRE 108 -1.7.819 27.743 16.225 1.00 24.81 101K 883 ATOM 798 CC PRE 108 -1.7.819 27.43 16.225 1.00 22.13 101K 883 ATOM 799 CC PRE 108 -1.7.819 27.43 16.225 1.00 22.13 101K 883 ATOM 800 CC PRE 108 -1.7.819 27.43 16.20 10.00 22.27 101K 894 ATOM 801 CC PRE 108 -1.7.819 27.43 16.20 10.00 22.27 101K 894 ATOM 802 CC PRE 108 -1.5.868 33.546 17.531 1.00 22.77 101K 894 ATOM 803 N GLY 109 -1.5.868 33.546 17.531 1.00 22.77 101K 894 ATOM 804 CA GLY 109 -1.5.868 33.546 17.531 1.00 22.77 101K 894 ATOM 805 C GLY 109 -1.5.868 33.546 17.531 16.30 1.00 21.53 101K 895 ATOM 806 C G GLY 109 -1.5.868 33.546 17.531 1.00 22.77 101K 894 ATOM 807 N GLY 109 -1.5.893 27.531 16.301 1.00 22.77 101K 894 ATOM 807 C G GLY 109 -1.5.868 33.546 17.531 1.00 22.77 101K 894 ATOM 807 C G GLY 110 -1.5.893 27.531 16.301 1.00 22.77 101K 894 ATOM 807 C G GLY 110 -1.5.893 27.531 16.301 1.00 22.77 101K 894 ATOM 808 C G GLY 110 -1.5.893 27.531 16.30									
ATOM 786 CA PRO 107 -21.312 26.680 15.688 1.00 28.88 101K 378 ATOM 787 C PRO 107 -22.916 27.693 13.406 1.00 27.50 101K 379 ATOM 788 C PRO 107 -22.910 26.662 17.461 1.00 30.80 101K 881 ATOM 790 CC PRO 107 -22.910 26.662 17.461 1.00 26.678 101K 881 ATOM 791 CO PRO 107 -22.910 26.662 17.461 1.00 26.678 101K 881 ATOM 791 CO PRO 107 -22.910 26.662 17.461 1.00 26.678 101K 881 ATOM 793 CA PRE 108 -20.082 28.727 16.251 1.00 23.51 11.101K 884 ATOM 793 CA PRE 108 -19.015 29.729 16.151 1.00 22.62 101K 886 ATOM 793 CA PRE 108 -19.015 29.729 16.151 1.00 22.62 101K 886 ATOM 793 CA PRE 108 -16.676 29.059 16.393 1.00 25.28 101K 886 ATOM 795 C PRE 108 -16.652 29.355 15.670 1.00 25.00 101K 887 ATOM 796 C PRE 108 -16.652 29.355 15.670 1.00 25.00 101K 887 ATOM 797 CC PRE 108 -17.644 29.059 16.351 1.00 25.00 101K 887 ATOM 798 CO PRE 108 -17.849 32.743 16.325 1.00 24.81 101K 888 ATOM 799 CO PRE 108 -17.849 32.743 16.325 1.00 24.81 101K 888 ATOM 799 CO PRE 108 -17.849 32.743 16.325 1.00 24.81 101K 888 ATOM 799 CO PRE 108 -17.849 32.743 16.325 1.00 24.81 101K 888 ATOM 799 CO PRE 108 -17.89 32.743 16.325 1.00 24.81 101K 888 ATOM 799 CO PRE 108 -17.89 32.743 16.325 1.00 24.81 101K 888 ATOM 799 CO PRE 108 -17.89 32.743 16.325 1.00 24.81 101K 888 ATOM 799 CO PRE 108 -17.89 32.743 16.325 1.00 25.50 101K 887 ATOM 800 CE2 PRE 108 -16.672 33.617 16.430 1.00 25.50 101K 887 ATOM 800 CE2 PRE 108 -16.673 33.617 16.430 1.00 25.50 101K 887 ATOM 800 CE2 PRE 108 -17.89 32.744 17.374 17.00 1.00 25.54 101K 891 ATOM 800 CE2 PRE 108 -17.89 32.744 17.30 1.00 25.54 101K 893 ATOM 800 CE2 PRE 108 -17.89 32.744 17.30 1.00 25.54 101K 893 ATOM 800 CE2 PRE 108 -17.89 32.744 17.30 1.00 22.70 101K 893 ATOM 800 CE2 PRE 108 -17.89 32.744 17.30 1.00 22.70 101K 893 ATOM 800 CE2 PRE 108 -17.89 32.744 17.30 1.00 22.70 101K 893 ATOM 800 CE2 PRE 108 -17.89 32.744 17.30 1.00 22.70 1.00 101K 893 ATOM 800 CE2 PRE 108 -17.89 32.744 17.30 1.00 22.70 101K 893 ATOM 800 CE2 PRE 108 ATOM 800 CE2 PR									
ATOM 787 C PRO 107 -20.169 27.593 15.406 1.00 27.50 1DIK 889 ATOM 789 C PRO 107 -20.169 27.531 14.464 1.00 27.50 1DIK 889 ATOM 789 C PRO 107 -22.6167 27.531 14.464 1.00 27.50 1DIK 880 ATOM 789 C PRO 107 -22.6167 27.501 15.218 1.00 23.11 1DIK 881 ATOM 789 C PRO 107 -22.6167 27.502 15.218 1.00 23.11 1DIK 881 ATOM 789 C PRE 108 -20.082 28.727 16.245 1.00 23.11 1DIK 881 ATOM 789 C PRE 108 -19.015 28.729 16.151 1.00 23.11 1DIK 882 ATOM 789 C PRE 108 -19.015 28.729 16.151 1.00 23.11 1DIK 885 ATOM 789 C PRE 108 -19.015 28.729 16.383 1.00 25.280 1DIK 886 ATOM 789 C PRE 108 -17.644 29.059 16.383 1.00 25.280 1DIK 886 ATOM 789 C PRE 108 -18.626 30.137 17.578 1.00 25.28 1DIK 886 ATOM 789 C PRE 108 -18.626 30.137 17.578 1.00 25.28 1DIK 886 ATOM 789 C PRE 108 -18.626 30.137 17.578 1.00 25.22 1DIK 885 ATOM 789 C PRE 108 -18.626 30.137 17.578 1.00 25.22 1DIK 885 ATOM 789 C PRE 108 -17.819 1.00 21.211 1DIK 889 ATOM 789 C PRE 108 -17.819 1.00 21.711 1DIK 889 ATOM 789 C PRE 108 -17.819 1.00 21.711 1DIK 889 ATOM 789 C PRE 108 -17.819 1.00 21.711 1DIK 890 ATOM 789 C PRE 108 -17.819 1.00 21.711 1DIK 890 ATOM 800 C PRE 108 -17.819 1.00 28.22 1DIK 895 ATOM 800 C PRE 108 -17.819 1.00 28.22 1DIK 895 ATOM 800 C PRE 108 -17.819 1.00 28.22 1DIK 895 ATOM 800 C PRE 108 -17.819 1.00 28.22 1DIK 895 ATOM 800 C PRE 108 -17.826 30.13.617 16.50 1.00 26.55 1DIK 895 ATOM 800 C PRE 108 -17.826 30.13.617 16.00 28.22 1DIK 895 ATOM 800 C PRE 108 -17.826 30.13.617 16.00 28.22 1DIK 895 ATOM 800 C PRE 108 108 -17.826 30.13.617 16.00 28.22 1DIK 895 ATOM 800 C PRE 108 108 -17.826 30.13.617 16.00 28.22 1DIK 895 ATOM 800 C PRE 108 108 108 108 108 108 108 108 108 108									
ATOM 789 C PRO 107 -19.381 27.531 14.464 1.00 30.80 DDIK 887 ATOM 789 C PRO 107 -22.679 27.203 15.281 1.00 25.78 DDIK 881 ATOM 791 CO PRO 107 -22.679 27.203 15.281 1.00 27.656 DDIK 882 ATOM 791 CO PRO 107 -22.679 27.203 15.281 1.00 27.656 DDIK 882 ATOM 791 CO PRO 107 -22.679 28.281 27.761 1.00 27.656 DDIK 882 ATOM 793 CA PRE 108 -19.015 29.729 16.151 1.00 22.62 DDIK 883 ATOM 794 C PRE 108 -19.015 29.729 16.151 1.00 22.62 DDIK 884 ATOM 793 CO PRIE 108 -19.023 30.030 1.037 17.155 1.00 25.02 DDIK 885 ATOM 794 C PRE 108 -19.223 30.039 16.151 1.00 22.62 DDIK 885 ATOM 795 C PRE 108 -16.657 29.556 15.670 1.00 25.00 DDIK 887 ATOM 795 CO PRE 108 -17.643 30.037 17.155 1.00 25.00 DDIK 887 ATOM 795 CO PRE 108 -17.623 31.377 18.40 1.00 25.00 DDIK 887 ATOM 795 CO PRE 108 -17.196 31.377 18.410 1.00 25.00 DDIK 887 ATOM 795 CO PRE 108 -17.196 31.377 18.40 1.00 26.50 DDIK 893 ATOM 801 CE2 PRE 108 -16.101 32.609 18.521 1.00 22.564 DDIK 893 ATOM 801 CE2 PRE 108 -16.101 32.609 18.521 1.00 22.564 DDIK 893 ATOM 801 CE2 PRE 108 -16.101 32.609 18.521 1.00 22.564 DDIK 893 ATOM 803 CE2 PRE 108 -16.101 32.609 18.521 1.00 22.564 DDIK 893 ATOM 803 CE2 PRE 108 -16.101 32.609 18.521 1.00 22.773 DDIK 894 ATOM 803 CE2 PRE 108 -16.101 32.609 18.521 1.00 22.761 DDIK 893 ATOM 803 CE2 PRE 108 -16.101 32.609 18.501 DDIK 893 ATOM 803 CE2 PRE 108 -16.601 32.609 18.501 DDIK 893 ATOM 803 CE2 PRE 108 -16.601 32.609 18.501 DDIK 893 ATOM 803 CE2 PRE 108 -16.602 DDIK 893 ATOM 803 CE2 PRE 108 DDIK 893 ATOM 803 CE2 PRE 108 DDIK 893 ATOM 804 CA GLU 109 -15.917 26.535 16.562 1.00 22.703 DDIK 893 ATOM 805 C GLU 109 -16.385 20.500 DDIK 893 ATOM 805 C GLU 109 -16.585 23.500 BDIK 893 DDIK 893 ATOM 805 C GLU 109 -16.585 23.500 BDIK 893 DDIK 893 ATOM 805 C GLU 109 DDIK 893 ATOM 805 C GLU 100 -16.585 23.500 BDIK 893 DDIK 893 ATOM 805 C GLU 100 DD					-20.169				
ATOM 79 CG PRO 107 -22.679 27.201 15.218 1.00 27.66 101K 882 1.00 27.66 101K 883 1.00					-19.381				
ATOM 791 CD PRO 107 -22.910 26.662 17.481 1.00 28.45 100 1018 894 ATOM 792 N PHE 108 -20.082 28.727 16.245 1.00 23.11 101K 884 ATOM 793 C PHE 108 -19.015 29.729 16.151 1.00 22.62 101K 886 ATOM 793 C PHE 108 -17.644 29.059 16.383 1.00 25.28 101K 886 ATOM 794 C PHE 108 -17.644 29.059 16.383 1.00 25.28 101K 886 ATOM 795 CD PHE 108 -16.652 29.356 15.670 1.00 25.00 101K 887 ATOM 797 CG PHE 108 -16.652 29.356 15.670 1.00 25.00 101K 887 ATOM 797 CG PHE 108 -16.652 29.356 15.670 1.00 25.00 101K 887 ATOM 798 CD PHE 108 -17.156 13.774 17.152 1.00 25.00 101K 887 ATOM 799 CD PHE 108 -17.156 13.774 17.152 1.00 25.00 101K 887 ATOM 800 CE PHE 108 -17.156 13.1737 18.400 1.00 26.50 101K 893 ATOM 801 CE PHE 108 -16.101 12.609 18.521 1.00 24.81 101K 893 ATOM 802 CZ PHE 108 -15.688 33.546 17.551 1.00 22.77 101K 894 ATOM 803 CZ PHE 108 -15.868 33.546 17.551 1.00 22.77 101K 894 ATOM 804 CZ PHE 108 -15.868 33.546 17.551 1.00 22.77 101K 894 ATOM 805 CG PHE 108 -15.868 33.546 17.551 1.00 22.77 101K 894 ATOM 807 N GUU 109 -15.937 26.535 17.502 1.00 22.73 101K 895 ATOM 808 CG GUU 109 -15.937 26.535 17.502 1.00 22.23 101K 895 ATOM 807 N GUU 110 -16.859 25.941 15.842 1.00 20.27 101K 895 ATOM 808 CG GUU 110 -16.859 25.941 15.842 1.00 20.27 101K 898 ATOM 807 N GUU 110 -16.859 25.941 15.842 1.00 20.27 101K 898 ATOM 808 CG GUU 110 -16.859 25.941 15.842 1.00 20.07 101K 990 ATOM 809 CG GUU 110 -16.859 25.941 15.842 1.00 20.07 101K 990 ATOM 809 CG GUU 110 -16.859 25.941 15.842 1.00 20.07 101K 990 ATOM 809 CG GUU 110 -16.859 25.941 15.842 1.00 20.07 101K 990 ATOM 809 CG GUU 110 -16.859 25.941 15.85 10.09 20.07 101K 990 ATOM 809 CG GUU 110 -16.859 25.941 15.85 10.09 19.55 101K 900 ATOM 809 CG GUU 110 -16.859 25.941 15.85 10.09 19.55 101K 900 ATOM 809 CG GUU 110 -16.859 25.941 15.85 10.09 19.55 101K 900 ATOM 809 CG GUU 110 -16.859 25.941 15.85 10.09 19.55 101K 900 ATOM 809 CG GUU 110 -16.859 25.941 15.85 10.09 19.55 101K 900 ATOM 809 CG GUU 110 -16.859 25.941 15.85 10.09 19.55 101K 900 ATOM 809 CG GUU 110 -16.850 10.09 10.09 10.00 10.00 10.00 10.00									
ATOM 792 N PHE 108 -20.082 28.727 16.245 1.00 22.161 100K 885 ATOM 793 CA PHE 108 -19.015 28.729 16.381 1.00 22.62 100K 885 ATOM 794 C PHE 108 -17.644 29.059 16.381 1.00 25.28 10K 885 ATOM 795 C PHE 108 -16.657 29.356 15.670 1.00 25.28 10K 887 ATOM 795 C PHE 108 -16.657 29.356 15.670 1.00 25.20 10K 887 ATOM 797 CG PHE 108 -16.657 29.356 15.670 1.00 25.20 10K 887 ATOM 797 CG PHE 108 -16.657 29.356 15.670 1.00 25.22 10DK 887 ATOM 797 CG PHE 108 -16.657 29.356 15.670 1.00 25.22 10DK 887 ATOM 799 CD2 PHE 108 -17.819 31.737 18.410 1.00 25.22 10DK 889 ATOM 799 CD2 PHE 108 -16.726 31.377 18.410 1.00 28.22 10DK 892 ATOM 801 CE2 PHE 108 -16.726 31.377 18.410 1.00 28.22 10DK 892 ATOM 801 CE2 PHE 108 -15.868 31.346 17.511 1.00 25.64 10DK 892 ATOM 801 CE2 PHE 108 -15.868 31.346 17.511 1.00 25.64 10DK 892 ATOM 801 CE2 PHE 108 -16.726 89.35 1.346 17.351 1.00 25.64 10DK 892 ATOM 801 CE2 PHE 108 -16.586 28.346 17.380 1.00 21.53 10DK 892 ATOM 803 CG PHE 108 -16.586 28.346 17.380 1.00 21.53 10DK 893 ATOM 804 CA GLY 109 -16.592 28.446 17.380 1.00 21.53 10DK 893 ATOM 807 N GLU 109 -14.713 26.334 16.562 1.00 22.03 10DK 893 ATOM 808 CA GLU 110 -16.859 28.941 15.842 1.00 22.23 10DK 893 ATOM 809 C GLU 110 -16.892 28.941 15.842 1.00 22.23 10DK 893 ATOM 809 C GLU 110 -16.893 28.941 15.842 1.00 22.23 10DK 893 ATOM 809 C GLU 110 -16.893 28.941 15.842 1.00 22.25 10DK 903 ATOM 809 C GLU 110 -16.893 28.975 13.603 1.00 18.70 10DK 904 ATOM 811 CB GLU 110 -16.555 28.108 14.697 1.00 18.70 10DK 904 ATOM 812 CB GLU 110 -16.893 28.975 13.603 1.00 22.25 10DK 905 ATOM 813 CB GLU 110 -16.893 28.975 13.603 1.00 22.75 10DK 905 ATOM 814 CB GLU 110 -18.563 28.975 13.603 1.00 22.75 10DK 905 ATOM 813 CB GLU 110 -18.563 28.975 13.603 1.00 22.77 10DK 904 ATOM 813 CB GLU 110 -18.563 28.975 13.603 1.00 22.775 10DK 905 ATOM 814 CB GLU 110 -19.803 22.995 11.00 20.27 10DK 904 ATOM 815 CB GLU 110 -19.803 22.995 11.00 20.27 10DK 904 ATOM 815 CB GLU 110 -19.803 22.995 11.00 20.26 10DK 913 ATOM 820 CB GLU 112 -11.815 10DK 913 10DK 913 10DK 913 10DK 913 10DK 913 10DK 9								1.00 27.66	
ATON 793 CA PRE 108 -19.015 29.729 16.151 1.00 22.62 IDIX 885 ATON 795 C PRE 108 -10.657 29.356 15.670 1.00 25.28 IDIX 886 ATON 795 CB PRE 108 -16.657 29.356 15.670 1.00 25.20 IDIX 886 ATON 795 CB PRE 108 -19.226 30.637 17.195 1.00 25.25 00 IDIX 887 ATON 795 CB PRE 108 -19.226 30.637 17.195 1.00 20.26 IDIX 888 ATON 797 CB PRE 108 -19.226 30.637 17.195 1.00 20.26 IDIX 888 ATON 798 CC						26.662	17.481		
ATOM 795 C PRE 108 -16.637 (2).535 16.383 1.00 25.28 IDIK 886 ATOM 795 C PRE 108 -16.637 (2).535 16.570 1.00 25.00 1DIK 887 ATOM 795 CO PRE 108 -16.227 (2).535 15.670 1.00 25.00 25.00 1DIK 887 ATOM 797 CO PRE 108 -1.8263 31.371 71.135 1.00 20.265 1DIK 888 ATOM 798 CO1 PRE 108 -1.8263 31.371 71.373 1.00 20.265 1DIK 888 ATOM 799 CO2 PRE 108 -17.196 31.773 18.410 1.00 24.22 1DIK 888 ATOM 800 CE1 PRE 108 -16.726 31.677 18.410 1.00 24.22 1DIK 893 ATOM 801 CE2 PRE 108 -16.726 31.677 18.410 1.00 26.50 1DIK 892 ATOM 801 CE2 PRE 108 -15.686 31.546 17.531 1.00 25.64 1DIK 893 ATOM 802 C2 PRE 108 -15.686 31.546 17.531 1.00 25.64 1DIK 893 ATOM 803 N GLY 109 -17.597 28.164 17.380 1.00 21.33 1DIK 895 ATOM 803 N GLY 109 -17.597 28.164 17.380 1.00 21.33 1DIK 895 ATOM 803 N GLY 109 -16.839 27.428 17.704 1.00 22.37 1DIK 894 ATOM 805 C GLY 109 -16.839 27.428 17.704 1.00 22.37 1DIK 894 ATOM 806 C GLY 109 -16.839 27.428 17.704 1.00 22.30 1DIK 897 ATOM 808 CA GLU 110 -16.555 25.104 11.60 27.27 1DIK 894 ATOM 808 CA GLU 110 -16.555 25.104 11.60 27.27 1DIK 894 ATOM 808 CA GLU 110 -16.555 25.104 11.60 27.27 1DIK 894 ATOM 808 CA GLU 110 -16.555 25.104 11.60 27.27 1DIK 894 ATOM 810 O GLU 110 -15.903 25.5975 13.00 19.00 23.25 1DIK 800 ATOM 810 CG GLU 110 -18.803 22.5975 13.00 19.00 23.25 1DIK 800 ATOM 810 CG GLU 110 -18.803 22.5975 13.00 19.00 23.25 1DIK 800 ATOM 810 CG GLU 110 -18.563 23.605 15.104 1.00 22.70 1DIK 804 ATOM 810 CG GLU 110 -18.563 23.605 15.104 1.00 23.25 1DIK 801 ATOM 812 CG GLU 110 -18.563 23.605 15.104 1.00 23.25 1DIK 801 ATOM 813 CG GLU 110 -18.603 22.893 13.019 1.00 23.25 1DIK 801 ATOM 813 CG GLU 110 -18.603 22.893 13.019 1.00 23.25 1DIK 801 ATOM 813 CG GLU 110 -18.603 22.893 13.019 1.00 23.25 1DIK 801 ATOM 815 CG GLU 110 -18.603 22.893 13.019 1.00 23.25 1DIK 801 ATOM 815 CG GLU 1110 -18.603 22.893 13.019 1.00 23.25 1DIK 801 ATOM 815 CG GLU 1110 -18.603 22.893 13.019 1.00 23.25 1DIK 801 ATOM 817 CA GLU 1110 -18.603 22.893 13.019 1.00 23.25 1DIK 801 ATOM 817 CA GLU 1110 -18.603 22.805 1DIK 801 ATOM 819 CG GLU 1110 -18.						20.727		1.00 23.11	
ATOM 795 CB PRE 108 -16.657 29.356 15.670 1.00 22.50 1DIX 887 ATOM 797 CB PRE 108 -19.226 30.837 17.395 1.00 20.26 1DIX 888 ATOM 797 CG PRE 108 -19.063 31.794 17.312 1.00 20.26 1DIX 888 ATOM 798 CDI PRE 108 -17.819 32.743 16.325 1.00 24.81 1DIX 890 ATOM 798 CDI PRE 108 -17.819 32.743 16.325 1.00 24.81 1DIX 890 ATOM 790 CDI PRE 108 -17.819 32.743 16.325 1.00 24.81 1DIX 890 ATOM 800 CEE PRE 108 -17.819 32.743 16.325 1.00 24.81 1DIX 890 ATOM 801 CEI PRE 108 -16.726 33.617 16.430 1.00 28.50 1DIX 892 ATOM 802 CZ PRE 108 -15.866 33.5467 18.531 1.00 22.547 1DIX 893 ATOM 803 N GLY 109 -17.597 28.164 17.380 1.00 21.53 1DIX 893 ATOM 804 CA GLY 109 -16.383 27.428 17.704 1.00 21.53 1DIX 893 ATOM 806 O GLY 109 -15.917 26.535 16.562 1.00 22.06 1DIX 897 ATOM 807 N GLU 110 -16.869 23.941 15.842 1.00 22.13 1DIX 898 ATOM 808 CA GLU 110 -16.869 23.941 15.842 1.00 20.87 1DIX 898 ATOM 808 CA GLU 110 -16.869 23.941 15.842 1.00 20.87 1DIX 898 ATOM 808 CA GLU 110 -16.892 23.941 15.842 1.00 20.87 1DIX 898 ATOM 808 CA GLU 110 -16.869 23.941 15.842 1.00 20.87 1DIX 898 ATOM 808 CA GLU 110 -16.892 23.941 13.623 1.00 20.83 1DIX 898 ATOM 808 CA GLU 110 -18.963 23.975 13.623 1.00 20.83 1DIX 898 ATOM 808 CA GLU 110 -21.893 23.945 13.623 1.00 20.83 1DIX 898 ATOM 808 CA GLU 110 -21.893 23.945 13.623 1.00 20.83 1DIX 898 ATOM 808 CA GLU 110 -21.893 23.950 13.019 1.00 20.43 1DIX 898 ATOM 808 CA GLU 110 -21.893 23.950 13.019 1.00 20.43 1DIX 898 ATOM 808 CA GLU 110 -21.893 23.950 13.019 1.00 20.43 1DIX 898 ATOM 808 CA GLU 110 -21.893 23.950 13.019 1.00 20.43 1DIX 898 ATOM 808 CA GLU 110 -21.893 23.950 13.019 1.00 20.43 1DIX 898 ATOM 808 CA GLU 110 -21.893 23.950 13.019 1.00 20.43 1DIX 898 ATOM 808 CA GLU 110 -21.893 23.950 13.019 1.00 20.43 1DIX 898 ATOM 808 CA GLU 110 -20.346 23.513 13.00 10.00 19.56 1DIX 908 ATOM 813 CO GLU 110 -20.346 23.513 13.00 10.00 19.56 1DIX 908 ATOM 813 CO GLU 110 -20.346 23.513 13.00 10.00 19.56 1DIX 908 ATOM 813 CO GLU 110 -20.346 10.00 19.80 10.00 19.80 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10						29.059		1 00 25 28	
ATOM 795 CG PRE 108 -19.026 30.837 17.195 1.00 20.26 1DIK 888 ATOM 797 CG PRE 108 -19.026 31.794 17.312 1.00 25.13 1DIK 889 ATOM 798 CG PRE 108 -19.063 31.794 17.312 1.00 25.13 1DIK 889 ATOM 798 CG PRE 108 -19.063 31.794 17.312 1.00 25.26 11DIK 890 ATOM 890 CGL PRE 108 -16.103 32.743 16.322 1.00 22.81 1DIK 890 ATOM 890 CGL PRE 108 -16.101 32.607 18.321 1.00 25.64 1DIK 893 ATOM 890 CGL PRE 108 -15.868 33.546 17.591 1.00 25.54 1DIK 893 ATOM 890 CGL PRE 108 -15.868 33.546 17.591 1.00 25.54 1DIK 893 ATOM 893 N GLY 109 -17.597 28.164 17.380 1.00 21.53 1DIK 895 ATOM 893 N GLY 109 -16.383 27.428 17.794 1.00 22.77 1DIK 894 ATOM 893 N GLY 109 -16.383 27.428 17.794 1.00 22.73 1DIK 895 ATOM 895 C GLY 109 -14.713 26.384 16.538 1.00 22.23 1DIK 895 ATOM 895 N GLU 110 -16.685 25.541 15.842 1.00 22.23 1DIK 895 ATOM 897 ATOM 898 C GLU 110 -16.685 25.541 15.842 1.00 22.85 1DIK 895 ATOM 897 ATOM 898 C GLU 110 -16.685 25.541 15.842 1.00 20.43 1DIK 899 ATOM 898 C GLU 110 -16.685 25.541 15.842 1.00 20.43 1DIK 899 ATOM 898 C GLU 110 -16.685 25.590 11.019 1.00 22.70 1DIK 893 ATOM 810 O GLU 110 -16.853 23.541 15.842 1.00 20.43 1DIK 893 ATOM 810 C GLU 110 -16.853 23.541 15.842 1.00 20.43 1DIK 893 ATOM 810 C GLU 110 -17.843 24.513 14.23 1.00 19.80 1DIK 893 ATOM 812 CG GLU 110 -18.803 22.933 11.00 10.00 22.70 1DIK 894 ATOM 813 CB GLU 110 -18.803 22.933 13.524 1.00 20.43 1DIK 895 ATOM 812 CG GLU 110 -18.803 22.933 13.524 1.00 20.43 1DIK 895 ATOM 812 CG GLU 110 -18.803 22.933 13.524 1.00 20.43 1DIK 895 ATOM 815 CB GLU 110 -19.803 22.933 13.505 15.104 1.00 23.25 1DIK 895 ATOM 815 CB GLU 110 -19.803 22.933 13.505 15.104 1.00 23.25 1DIK 895 ATOM 815 CB GLU 110 -19.803 22.933 13.506 11.00 23.25 1DIK 895 ATOM 815 CB GLU 110 -19.803 22.935 13.505 15.104 1.00 23.25 1DIK 895 ATOM 815 CB GLU 110 -19.803 22.935 13.505 15.104 1.00 23.25 1DIK 895 ATOM 815 CB GLU 111 -15.673 28.551 11.908 1.00 23.25 1DIK 895 ATOM 815 CB GLU 112 -13.575 28.255 11.908 1.00 23.25 1DIK 895 ATOM 817 CB GLU 112 -13.575 28.255 11.908 1.00 23.75 1DIK 895 ATOM 817 CB GLU 112 -13					-16.657		15.670		
ATOM 797 CC PRE 108 -18.063 31.794 17.312 1.00 24.81 IDIK 899 ATOM 799 COL) PRE 108 -17.819 32.743 16.325 1.00 24.81 IDIK 899 ATOM 799 COL) PRE 108 -17.819 32.743 16.325 1.00 24.81 IDIK 899 ATOM 799 COL PRE 108 -17.819 32.743 16.325 1.00 24.82 10X 891 ATOM 801 CE2 PRE 108 -15.866 31.777 18.410 1.00 28.50 10X 891 ATOM 802 CZ PRE 108 -15.866 31.546 17.531 1.00 22.577 10X 891 ATOM 803 N GLY 109 -17.597 28.164 17.531 1.00 22.577 10X 891 ATOM 804 CA GLY 109 -17.597 28.164 17.531 1.00 22.577 10X 891 ATOM 805 C GLY 109 -16.383 27.428 17.704 1.00 21.53 10X 895 ATOM 806 O GLY 109 -15.917 26.535 16.562 1.00 22.06 10X 897 ATOM 807 N GLU 110 -16.869 25.941 15.842 1.00 22.23 10X 898 ATOM 807 N GLU 110 -16.869 25.941 15.842 1.00 20.87 10X 898 ATOM 809 C GLU 110 -16.865 25.108 14.687 1.00 18.70 10X 899 ATOM 809 C GLU 110 -16.95 25.945 13.623 1.00 19.56 10X 897 ATOM 809 C GLU 110 -18.963 27.945 13.623 1.00 19.56 10X 897 ATOM 809 C GLU 110 -18.963 27.945 13.623 1.00 19.56 10X 897 ATOM 809 C GLU 110 -18.963 27.955 13.623 1.00 19.56 10X 897 ATOM 809 C GLU 110 -18.963 27.955 13.623 1.00 19.56 10X 897 ATOM 811 CS GLU 110 -18.963 27.955 13.623 1.00 19.56 10X 897 ATOM 812 CS GLU 110 -18.963 27.955 13.623 1.00 19.56 10X 897 ATOM 813 CD GLU 110 -19.803 22.995 14.520 1.00 23.75 10X 898 ATOM 813 CD GLU 110 -19.803 22.995 14.520 1.00 23.75 10X 898 ATOM 813 CD GLU 110 -19.803 22.995 14.520 1.00 23.75 10X 898 ATOM 813 CD GLU 110 -19.803 22.995 14.520 1.00 27.96 10X 897 ATOM 816 N GLN 111 -16.499 27.153 13.602 1.00 27.96 10X 899 ATOM 819 CD GLU 110 -20.363 22.995 14.520 1.00 27.96 10X 899 ATOM 819 CD GLU 110 -20.363 28.955 19.5063 10.00 27.96 10X 899 ATOM 819 CD GLU 110 -20.363 28.955 19.5063 10.00 27.96 10X 899 ATOM 819 CD GLU 110 -20.363 28.955 19.5063 10.00 27.95 10X 899 ATOM 819 CD GLU 112 -12.960 23.137 10.00 27.95 10X 899 ATOM 819 CD GLU 112 -12.960 23.137 10.00 27.95 10X 899 ATOM 819 CD GLU 112 -12.960 23.137 14.550 1.00 27.96 10X 899 ATOM 820 CD GLU 112 -12.960 23.137 14.550 1.00 27.96 10X 899 ATOM 820 CD GLU 112 -12.960 23.137 14.55					-19.226		17.195		
ATOM 799 CD2 PHE 108 -17.196 31.737 18.410 1.00 28.22 10TX 891 ATOM 800 CE1 PHE 108 -16.726 33.617 16.430 1.00 26.52 10TX 891 ATOM 801 CE2 PHE 108 -16.101 32.609 18.521 1.00 25.64 10TX 893 ATOM 802 CZ PHE 108 -15.606 33.546 17.531 1.00 22.77 10TX 893 ATOM 803 N GLY 109 -17.597 28.164 17.380 1.00 21.53 10TX 895 ATOM 803 N GLY 109 -17.597 28.164 17.380 1.00 21.53 10TX 895 ATOM 805 C GLY 109 -15.917 26.535 16.562 1.00 22.06 10TX 895 ATOM 805 C GLY 109 -15.917 26.535 16.562 1.00 22.06 10TX 897 ATOM 806 C GLY 109 -15.917 26.535 16.562 1.00 22.06 10TX 897 ATOM 808 C G GLY 109 -15.917 26.535 16.562 1.00 22.06 10TX 897 ATOM 808 C G GLY 109 -15.917 26.535 16.562 1.00 22.06 10TX 897 ATOM 808 C G GLY 109 -15.917 26.535 16.562 1.00 22.06 10TX 897 ATOM 808 C G GLU 110 -16.869 23.941 15.842 1.00 20.87 10TX 890 ATOM 809 C G GLU 110 -16.869 23.941 15.842 1.00 20.87 10TX 890 ATOM 810 C G GLU 110 -18.859 23.941 15.842 1.00 19.55 10TX 890 ATOM 810 C G GLU 110 -18.853 23.951 13.623 1.00 19.54 10TX 903 ATOM 812 CG GLU 110 -19.8563 23.065 15.104 1.00 22.70 10TX 903 ATOM 812 CG GLU 110 -19.8563 23.605 15.104 1.00 22.70 10TX 903 ATOM 814 CEI GLU 110 -20.346 23.513 13.4123 1.00 19.55 10TX 905 ATOM 814 CEI GLU 110 -20.346 23.513 13.423 1.00 22.70 10TX 905 ATOM 814 CEI GLU 110 -20.346 23.513 13.524 1.00 27.96 10TX 905 ATOM 816 N GLM 111 -16.689 27.153 11.402 1.00 22.70 10TX 905 ATOM 816 N GLM 111 -16.689 27.153 11.00 10.00 22.70 10TX 905 ATOM 816 N GLM 111 -15.963 28.094 12.427 1.00 20.74 10TX 909 ATOM 816 N GLM 111 -15.963 28.094 12.427 1.00 20.74 10TX 909 ATOM 816 N GLM 111 -14.541 28.523 12.191 1.00 21.64 10TX 915 ATOM 823 CG GLU 110 -20.217 21.955 13.00 12.00 18.95 10TX 916 ATOM 823 CG GLU 110 -19.806 28.00 10TX 917 ATOM 824 NEZ GLU 110 -19.806 28.00 10TX 918 ATOM 825 N GLU 112 -11.5963 28.094 12.427 1.00 20.74 10TX 909 ATOM 816 N GLW 11.00 10TX 916 ATOM 823 CG GLU 112 -12.960 29.137 11.500 10.00 10.90 10TX 917 ATOM 823 CG GLU 112 -12.960 29.137 11.500 10.00 19.60 10TX 918 ATOM 823 CG GLU 112 -12.960 29.10 10.00 19.60 10TX 918 ATOM 8						31.794			
ATOM 800 CEL PHE 108 -16.726 33.4617 16.430 1.00 26.50 101K 892 ATOM 801 CE2 PHE 108 -16.101 32.609 18.521 1.00 25.650 101K 892 ATOM 802 CZ PHE 108 -15.868 33.546 17.531 1.00 25.67 101K 894 ATOM 803 N GLY 109 -15.868 33.546 17.531 1.00 22.77 101K 894 ATOM 804 CA GLY 109 -16.381 27.428 17.704 1.00 21.31 101K 895 ATOM 805 C GLY 109 -16.381 27.428 17.704 1.00 21.31 101K 895 ATOM 806 C GLY 109 -16.381 27.428 17.704 1.00 21.31 101K 895 ATOM 807 N GLU 110 -16.386 27.428 17.704 1.00 22.23 101K 898 ATOM 808 CA GLU 110 -16.565 25.510 11.504 1.00 22.87 101K 899 ATOM 808 CA GLU 110 -16.565 25.108 14.687 1.00 18.70 101K 903 ATOM 809 C GLU 110 -16.565 25.108 14.687 1.00 18.70 101K 903 ATOM 810 C GLU 110 -1.895 25.590 13.019 1.00 20.43 101K 903 ATOM 811 CD GLU 110 -1.895 25.590 13.019 1.00 20.43 101K 903 ATOM 812 CD GLU 110 -1.895 25.590 13.019 1.00 20.43 101K 903 ATOM 813 CD GLU 110 -19.803 22.600 13.100 19.56 101K 903 ATOM 813 CD GLU 110 -20.346 22.513 14.123 1.00 19.756 101K 903 ATOM 813 CD GLU 110 -20.346 22.513 14.123 1.00 19.756 101K 903 ATOM 815 OEZ GLU 110 -20.346 22.513 13.524 1.00 22.755 101K 903 ATOM 816 N GLN 111 -16.489 27.153 13.524 1.00 27.756 101K 908 ATOM 817 CA GLM 111 -15.963 28.094 12.427 1.00 20.74 101K 909 ATOM 818 C GLM 111 -16.568 29.321 12.319 1.00 21.64 101K 903 ATOM 819 O GLM 111 -16.568 29.321 12.319 1.00 21.64 101K 903 ATOM 820 CB GLM 111 -16.527 30.222 11.791 1.00 21.64 101K 903 ATOM 821 CG GLM 111 -16.527 30.222 11.791 1.00 21.64 101K 913 ATOM 822 CD GLM 111 -16.527 30.222 11.791 1.00 21.64 101K 913 ATOM 823 OEZ GLM 111 -16.527 30.222 11.791 1.00 21.64 101K 913 ATOM 823 OEZ GLM 111 -16.527 30.222 11.791 1.00 21.64 101K 913 ATOM 823 OEZ GLM 111 -16.527 30.222 11.791 1.00 21.64 101K 913 ATOM 823 OEZ GLM 111 -16.527 30.222 11.791 1.00 21.64 101K 913 ATOM 823 OEZ GLM 111 -16.527 30.222 11.791 1.00 21.64 101K 913 ATOM 824 CG GLM 111 -16.527 30.222 11.791 1.00 21.04 101K 913 ATOM 825 OE GLM 111 -16.527 30.222 11.791 1.00 20.04 101K 913 ATOM 826 OE GLM 111 -16.527 30.222 11.00 10.904 101K 913 ATOM 827						32.743			
ATOM 801 CE2 PHE 108 -16.101 32.609 18.521 1.00 25.64 101K 901 ATOM 802 CZ PHE 108 -15.668 33.546 17.531 1.00 22.77 101K 9891 ATOM 803 N GLY 109 -17.597 28.164 17.380 1.00 21.53 101K 995 ATOM 803 C GLY 109 -16.383 27.428 17.704 1.00 21.531 101K 995 ATOM 803 C GLY 109 -16.383 27.428 17.704 1.00 21.531 101K 995 ATOM 805 C GLY 109 -15.917 26.535 16.562 1.00 22.06 101K 997 ATOM 807 N GLU 110 -16.869 23.941 15.842 1.00 22.07 101K 998 ATOM 807 N GLU 110 -16.869 23.941 15.842 1.00 20.87 101K 999 ATOM 807 N GLU 110 -16.869 23.941 15.842 1.00 20.87 101K 999 ATOM 807 N GLU 110 -16.865 23.108 16.867 1.00 18.70 101K 990 ATOM 810 O GLU 110 -15.900 25.955 13.623 1.00 19.56 101K 901 ATOM 811 CB GLU 110 -15.900 25.975 13.623 1.00 19.56 101K 903 ATOM 810 O GLU 110 -19.805 25.975 13.623 1.00 20.43 101K 903 ATOM 812 CC GLU 110 -18.853 23.955 13.623 1.00 22.40 101K 903 ATOM 812 CC GLU 110 -18.853 23.1605 11.00 22.20 101K 903 ATOM 814 CB1 GLU 110 -20.346 23.513 13.524 1.00 22.95 101K 903 ATOM 814 CB1 GLU 110 -20.346 23.513 13.524 1.00 22.79 101K 905 ATOM 814 CB1 GLU 110 -20.346 23.513 13.524 1.00 27.96 101K 905 ATOM 816 N GLN 111 -16.689 27.153 13.402 1.00 23.79 101K 905 ATOM 816 N GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 907 ATOM 816 N GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 909 ATOM 818 C GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 909 ATOM 818 C GLN 111 -15.688 29.21 11.90 1.00 21.64 101K 910 ATOM 821 CG GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 909 ATOM 818 C GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 910 ATOM 821 CG GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 910 ATOM 822 CG GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 910 ATOM 822 CG GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 910 ATOM 822 CG GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 910 ATOM 823 CG GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 910 ATOM 823 CG GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 910 ATOM 823 CG GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 910 ATOM 823 CG GLN 111 -15.963 28.094 12.427 1.00 20.74 101K 910 ATOM 823 CG GLN									
ATOM 802 CZ PHE 108 -15.968 33.546 17.531 1.00 22.77 101X 894 ATOM 803 N GLY 109 -16.383 27.428 17.704 1.00 21.31 101X 895 ATOM 804 CA GLY 109 -16.383 27.428 17.704 1.00 21.31 101X 895 ATOM 805 C GLY 109 -16.383 27.428 17.704 1.00 21.31 101X 896 ATOM 806 O GLY 109 -14.713 26.384 16.338 1.00 22.23 101X 898 ATOM 807 N GLU 110 -14.713 26.384 16.338 1.00 22.23 101X 898 ATOM 808 CA GLU 110 -16.565 25.108 14.667 1.00 18.70 101X 903 ATOM 809 C GLU 110 -16.565 25.108 14.667 1.00 18.70 101X 903 ATOM 810 O GLU 110 -14.895 25.590 13.019 1.00 20.43 101X 903 ATOM 811 CB GLU 110 -14.895 25.590 13.019 1.00 20.43 101X 903 ATOM 812 CB GLU 110 -18.563 23.605 15.104 1.00 22.73 101X 903 ATOM 813 CB GLU 110 -18.563 23.605 15.104 1.00 22.70 101X 903 ATOM 814 CD1 GLU 110 -29.363 23.605 15.104 1.00 22.70 101X 903 ATOM 815 OZZ GLU 110 -29.346 23.981 13.520 1.00 27.725 101X 903 ATOM 816 N GLN 111 -15.963 28.094 12.427 1.00 20.74 101X 903 ATOM 817 CA GLM 111 -15.963 28.094 12.427 1.00 20.74 101X 903 ATOM 818 C GLM 111 -15.963 28.094 12.427 1.00 20.74 101X 903 ATOM 819 O GLN 111 -14.5963 28.094 12.427 1.00 20.74 101X 903 ATOM 820 CB GLM 111 -16.527 30.222 11.735 11.00 21.26 101X 913 ATOM 821 CG GLM 111 -16.527 30.222 11.735 11.00 21.26 101X 913 ATOM 822 CB GLM 111 -16.527 30.222 11.319 1.00 21.26 101X 913 ATOM 821 CG GLM 111 -16.527 30.222 11.319 1.00 21.26 101X 913 ATOM 822 CB GLM 111 -16.527 30.222 11.319 1.00 21.04 101X 913 ATOM 821 CG GLM 111 -16.527 30.222 11.319 1.00 21.04 101X 913 ATOM 822 CB GLM 111 -16.527 30.222 11.319 1.00 21.04 101X 913 ATOM 823 CB GLM 111 -16.527 30.222 11.319 1.00 21.04 101X 913 ATOM 823 CB GLM 111 -16.527 30.222 11.319 1.00 21.04 101X 913 ATOM 821 CG GLM 111 -17.440 28.718 9.551 1.00 31.90 101X 913 ATOM 823 CB GLM 111 -17.440 28.718 9.551 1.00 10.0									
ATOM 805 C GLY 109 -15.381 27.428 17.704 1.00 21.31 101X 896 ATOM 805 C GLY 109 -15.391 26.535 16.562 1.00 22.206 101X 897 ATOM 806 O GLY 109 -14.713 26.384 16.318 1.00 22.23 101X 898 ATOM 807 N GLU 110 -16.565 25.941 15.842 1.00 20.87 101X 899 ATOM 808 CA GLU 110 -16.565 25.941 15.842 1.00 20.87 101X 899 ATOM 809 C GLU 110 -15.508 23.975 13.623 1.00 19.56 101X 900 ATOM 809 C GLU 110 -15.508 23.975 13.623 1.00 19.56 101X 900 ATOM 801 O GLU 110 -14.895 25.590 13.019 1.00 20.43 101X 900 ATOM 811 CB GLU 110 -17.843 24.513 14.123 1.00 19.80 101X 903 ATOM 812 CC GLU 110 -18.563 23.605 15.104 1.00 22.70 101X 903 ATOM 813 CC GLU 110 -19.803 22.983 14.520 1.00 23.25 101X 903 ATOM 813 CC GLU 110 -20.346 23.513 11.524 1.00 27.796 101X 903 ATOM 813 CC GLU 110 -20.346 23.513 11.524 1.00 27.796 101X 903 ATOM 815 OEE GLU 110 -20.346 23.513 11.524 1.00 27.796 101X 903 ATOM 815 OEE GLU 110 -20.346 23.513 11.524 1.00 27.96 101X 903 ATOM 815 OEE GLU 110 -20.346 23.513 11.524 1.00 27.96 101X 905 ATOM 815 OEE GLU 110 -20.346 23.513 11.524 1.00 27.96 101X 905 ATOM 817 CA GLN 111 -16.648 27.193 11.402 1.00 18.55 101X 905 ATOM 817 CA GLN 111 -16.648 27.193 12.402 1.00 18.55 101X 905 ATOM 818 C GLN 111 -16.683 29.212 12.319 1.402 1.00 18.55 101X 905 ATOM 820 CB GLN 111 -16.527 30.222 11.144 1.00 22.64 101X 909 ATOM 820 CB GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 19.20 1.00 18.91 ATOM 823 OEI GLN 111 -15.69 228.71 8.91 11.00 19.50 1.00 11X 913 ATOM 823 OEI GLN 111 -15.69 228.71 8.91 11.00 19.50 1.00 11X 913 ATOM 823 OEI GLN 111 -15.69 28.71 8.91 11.00 19.50 1.00 19.50 1.00 11X 913 ATOM 826 CG GLU 112 -12.79 0.91 11.00 19.50 1.00 19.90 1.00 10.10 19.10 10.10 19							17 531	1.00 23.84	
ATOM 805 C GLY 109 -15.381 27.428 17.704 1.00 21.31 101X 896 ATOM 805 C GLY 109 -15.391 26.535 16.562 1.00 22.206 101X 897 ATOM 806 O GLY 109 -14.713 26.384 16.318 1.00 22.23 101X 898 ATOM 807 N GLU 110 -16.565 25.941 15.842 1.00 20.87 101X 899 ATOM 808 CA GLU 110 -16.565 25.941 15.842 1.00 20.87 101X 899 ATOM 809 C GLU 110 -15.508 23.975 13.623 1.00 19.56 101X 900 ATOM 809 C GLU 110 -15.508 23.975 13.623 1.00 19.56 101X 900 ATOM 801 O GLU 110 -14.895 25.590 13.019 1.00 20.43 101X 900 ATOM 811 CB GLU 110 -17.843 24.513 14.123 1.00 19.80 101X 903 ATOM 812 CC GLU 110 -18.563 23.605 15.104 1.00 22.70 101X 903 ATOM 813 CC GLU 110 -19.803 22.983 14.520 1.00 23.25 101X 903 ATOM 813 CC GLU 110 -20.346 23.513 11.524 1.00 27.796 101X 903 ATOM 813 CC GLU 110 -20.346 23.513 11.524 1.00 27.796 101X 903 ATOM 815 OEE GLU 110 -20.346 23.513 11.524 1.00 27.796 101X 903 ATOM 815 OEE GLU 110 -20.346 23.513 11.524 1.00 27.96 101X 903 ATOM 815 OEE GLU 110 -20.346 23.513 11.524 1.00 27.96 101X 905 ATOM 815 OEE GLU 110 -20.346 23.513 11.524 1.00 27.96 101X 905 ATOM 817 CA GLN 111 -16.648 27.193 11.402 1.00 18.55 101X 905 ATOM 817 CA GLN 111 -16.648 27.193 12.402 1.00 18.55 101X 905 ATOM 818 C GLN 111 -16.683 29.212 12.319 1.402 1.00 18.55 101X 905 ATOM 820 CB GLN 111 -16.527 30.222 11.144 1.00 22.64 101X 909 ATOM 820 CB GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 12.20 1.00 18.91 ATOM 823 OEI GLN 111 -16.527 30.222 11.144 1.00 19.20 1.00 18.91 ATOM 823 OEI GLN 111 -15.69 228.71 8.91 11.00 19.50 1.00 11X 913 ATOM 823 OEI GLN 111 -15.69 228.71 8.91 11.00 19.50 1.00 11X 913 ATOM 823 OEI GLN 111 -15.69 28.71 8.91 11.00 19.50 1.00 19.50 1.00 11X 913 ATOM 826 CG GLU 112 -12.79 0.91 11.00 19.50 1.00 19.90 1.00 10.10 19.10 10.10 19							17.380		
ATOM 806 C CLY 109 -15.917 26.535 16.562 1.00 22.06 101K 898 ATOM 806 O CLY 109 -14.713 26.365 115.842 1.00 22.23 101K 898 ATOM 807 N GLU 110 -16.869 23.941 15.842 1.00 20.87 101K 898 ATOM 808 CA GLU 110 -16.869 23.941 15.842 1.00 20.87 101K 898 ATOM 809 C GLU 110 -16.869 23.975 116.637 1.00 19.56 101K 900 ATOM 809 C GLU 110 -14.895 25.595 113.623 1.00 19.56 101K 901 ATOM 811 CB GLU 110 -14.895 25.595 113.623 1.00 19.56 101K 901 ATOM 811 CB GLU 110 -18.856 22.975 113.623 1.00 19.80 101K 902 ATOM 811 CB GLU 110 -18.856 22.975 113.623 1.00 19.80 101K 903 ATOM 812 CG GLU 110 -18.856 22.985 113.019 1.00 22.770 101K 903 ATOM 813 CB GLU 110 -20.346 23.513 11.524 1.00 27.75 101K 903 ATOM 814 CB GLU 110 -20.346 23.513 11.524 1.00 27.75 101K 905 ATOM 814 CB CLU 110 -20.346 23.513 11.524 1.00 23.25 101K 905 ATOM 815 CB CLU 110 -20.346 23.513 11.524 1.00 27.57 101K 905 ATOM 817 CA GLN 111 -14.541 28.522 12.791 1.00 21.64 101K 903 ATOM 818 C GLN 111 -14.541 28.522 12.791 1.00 21.64 101K 903 ATOM 819 O GLN 111 -14.541 28.522 12.791 1.00 21.64 101K 910 ATOM 820 CB GLN 111 -16.586 29.321 12.319 1.00 26.01 101K 913 ATOM 822 CC GLN 111 -15.503 29.455 9.825 1.00 37.67 101K 913 ATOM 822 CC GLN 111 -16.503 29.455 9.825 1.00 37.67 101K 913 ATOM 824 NEZ GLN 111 -15.503 29.455 9.825 1.00 37.67 101K 913 ATOM 826 CA GLU 112 -11.296 29.137 14.550 1.00 19.26 101K 913 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 101K 913 ATOM 826 CA GLU 112 -11.875 28.131 14.131 1.00 19.50 101K 913 ATOM 826 CA GLU 112 -11.875 28.131 14.131 1.00 19.50 101K 913 ATOM 826 CA GLU 112 -11.875 28.131 14.131 1.00 19.50 101K 913 ATOM 826 CA GLU 112 -11.875 28.135 14.131 1.00 19.50 101K 913 ATOM 826 CA GLU 112 -11.875 28.135 14.131 1.00 19.50 101K 913 ATOM 826 CA GLU 112 -11.875 28.135 14.131 1.00 19.50 101K 913 ATOM 826 CA GLU 112 -11.875 28.135 14.131 1.00 19.50 101K 913 ATOM 826 CA GLU 112 -11.875 28.135 14.131 1.00 19.50 101K 913 ATOM 826 CA GLU 112 -11.875 28.135 14.131 1.00 19.50 101K 913 ATOM 826 CA GLU 112 -11.875 28.135 14.131 1.00 19.50 101K 913 A		804	CA GLY	109	-16.383		17.704		
ATOM 808 CA GLU 110 -16.859 25.941 15.842 1.00 20.87 1DIX 899 ATOM 809 C GLU 110 -16.565 25.108 14.687 1.00 19.56 1DIX 900 ATOM 809 C GLU 110 -15.908 25.975 13.623 1.00 19.56 1DIX 900 ATOM 810 C GLU 110 -14.895 25.590 13.019 1.00 20.43 1DIX 902 ATOM 811 CB GLU 110 -17.843 24.513 14.123 1.00 19.56 1DIX 903 ATOM 812 CC GLU 110 -18.863 23.605 15.104 1.00 22.70 1DIX 903 ATOM 813 CD GLU 110 -19.803 22.983 14.520 1.00 22.70 1DIX 903 ATOM 813 CD GLU 110 -20.346 23.513 13.524 1.00 22.70 1DIX 904 ATOM 813 CD GLU 110 -20.346 23.513 13.524 1.00 22.70 1DIX 905 ATOM 815 CE GLU 110 -20.346 23.513 13.524 1.00 22.70 1DIX 905 ATOM 815 CE GLU 110 -20.346 23.513 13.524 1.00 22.79 1DIX 905 ATOM 815 CE GLU 110 -20.237 21.955 15.063 1.00 26.17 1DIX 907 ATOM 816 M GLM 111 -15.963 28.094 12.427 1.00 20.74 1DIX 907 ATOM 817 CA GLM 111 -15.963 28.094 12.427 1.00 20.74 1DIX 909 ATOM 819 C GLM 111 -14.541 28.523 12.791 1.00 20.74 1DIX 909 ATOM 819 C GLM 111 -14.541 28.523 12.791 1.00 21.26 1DIX 918 ATOM 820 CB GLM 111 -16.568 29.312 12.319 1.00 21.26 1DIX 918 ATOM 821 CG GLM 111 -16.527 30.222 11.144 1.00 32.20 1DIX 913 ATOM 822 CD GLM 111 -16.527 30.222 11.144 1.00 32.20 1DIX 913 ATOM 822 CD GLM 111 -16.527 30.222 11.144 1.00 32.20 1DIX 913 ATOM 822 CD GLM 111 -16.527 30.222 11.144 1.00 32.20 1DIX 913 ATOM 822 CD GLM 111 -16.527 30.222 11.144 1.00 32.20 1DIX 913 ATOM 822 CD GLM 111 -16.527 30.222 11.144 1.00 32.20 1DIX 913 ATOM 822 CD GLM 111 -16.527 30.222 11.144 1.00 32.20 1DIX 913 ATOM 823 CE GLM 111 -15.402 28.718 9.511 1.00 42.78 1DIX 915 ATOM 824 NEZ GLM 111 -15.402 28.718 9.511 1.00 42.78 1DIX 915 ATOM 825 N GLU 112 -12.923 29.252 10.03 4.61 1DIX 915 ATOM 827 C GLU 112 -12.923 29.252 10.03 4.61 1DIX 915 ATOM 826 CA GLU 112 -12.923 29.252 10.00 19.50 1DIX 912 ATOM 827 C GLU 112 -13.576 30.607 18.157 1.00 19.00 1DIX 924 ATOM 827 C GLU 112 -13.276 30.607 18.157 1.00 19.00 1DIX 924 ATOM 827 C GLU 112 -13.276 30.607 18.157 1.00 19.00 1DIX 928 ATOM 827 C GLU 112 -13.276 30.607 18.157 1.00 19.00 1DIX 928 ATOM 827 C GLU 113 -12.200 25.801					-15.917	26.535	16.562	1.00 22.06	
ATOM 809 CA GLU 110 -15.565 25.108 14.687 1.00 18.70 1DIX 900 ATOM 809 C GLU 110 -15.908 25.595 13.623 1.00 19.56 1DIX 901 ATOM 810 O GLU 110 -17.893 25.590 13.019 1.00 20.43 1DIX 902 ATOM 811 CB GLU 110 -17.893 24.513 14.123 1.00 19.80 1DIX 903 ATOM 812 CG GLU 110 -17.893 24.513 14.123 1.00 19.80 1DIX 903 ATOM 812 CG GLU 110 -18.563 23.605 15.104 1.00 22.70 1DIX 904 ATOM 813 CD GLU 110 -19.803 22.993 14.520 1.00 23.25 1DIX 905 ATOM 814 CEI GLU 110 -20.346 23.513 13.524 1.00 27.96 1DIX 905 ATOM 814 CEI GLU 110 -20.346 23.513 13.524 1.00 27.96 1DIX 905 ATOM 815 CEI GLU 110 -20.346 23.513 13.524 1.00 27.96 1DIX 906 ATOM 816 N GLN 111 -15.6499 27.153 13.402 1.00 28.25 1DIX 905 ATOM 816 N GLN 111 -15.963 28.094 12.427 1.00 20.74 1DIX 907 ATOM 816 N GLN 111 -15.963 28.094 12.427 1.00 20.74 1DIX 908 ATOM 817 CA GLN 111 -15.963 28.094 12.427 1.00 21.64 1DIX 908 ATOM 819 O GLN 111 -15.963 28.6094 12.427 1.00 21.64 1DIX 910 ATOM 820 CB GLN 111 -15.632 29.651 11.908 1.00 21.26 1DIX 913 ATOM 820 CB GLN 111 -15.652 30.222 11.144 1.00 25.01 1DIX 913 ATOM 822 CD GLN 111 -15.652 30.222 11.144 1.00 32.20 1DIX 913 ATOM 822 CD GLN 111 -15.503 29.455 9.825 1.00 37.67 1DIX 914 ATOM 823 OEI GLN 111 -15.432 29.620 9.051 1.00 37.67 1DIX 914 ATOM 825 N GLU 112 -14.92 28.73 14.550 1.00 19.26 1DIX 915 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIX 915 ATOM 826 CA GLU 112 -12.950 29.137 14.550 1.00 19.26 1DIX 915 ATOM 826 CA GLU 112 -12.950 29.137 14.550 1.00 19.26 1DIX 915 ATOM 826 CA GLU 112 -12.950 29.137 14.550 1.00 19.26 1DIX 915 ATOM 826 CA GLU 112 -13.553 30.522 16.665 1.00 19.50 1DIX 917 ATOM 826 CA GLU 112 -13.553 30.522 16.665 1.00 19.50 1DIX 917 ATOM 826 CA GLU 112 -13.553 30.522 16.665 1.00 19.50 1DIX 918 ATOM 827 CG GLU 112 -13.553 30.522 16.665 1.00 19.50 1DIX 918 ATOM 827 CG GLU 112 -13.553 30.522 16.665 1.00 19.50 1DIX 927 ATOM 830 CG GLU 112 -13.553 30.522 16.665 1.00 19.50 1DIX 928 ATOM 831 CG LEU 113 -15.632 29.601 13.508 1.00 19.50 1DIX 938 ATOM 831 CG LEU 113 -15.632 29.601 13.508 1.00 19.50 1DIX 938 ATOM									
ATOM 809 C GLU 110 -15.908 25.975 13.623 1.00 19.56 10TK 901 ATOM 810 C GLU 110 -14.895 25.590 13.019 1.00 22.70 10TK 903 ATOM 811 CB GLU 110 -14.895 25.590 13.019 1.00 22.70 10TK 903 ATOM 812 CG GLU 110 -18.863 23.605 15.104 1.00 22.70 10TK 903 ATOM 813 CD GLU 110 -18.863 23.605 15.104 1.00 22.70 10TK 903 ATOM 813 CD GLU 110 -19.803 22.983 14.520 1.00 23.25 10TK 905 ATOM 813 CD GLU 110 -20.346 23.513 13.524 1.00 27.96 10TK 905 ATOM 815 CD GLU 110 -20.346 23.513 13.524 1.00 26.17 10TK 905 ATOM 815 CD GLU 110 -20.237 21.955 15.063 1.00 26.17 10TK 907 ATOM 816 M GLN 111 -16.889 27.153 13.402 1.00 18.95 10TK 907 ATOM 817 CA GLN 111 -15.963 28.094 12.427 1.00 20.74 10TK 909 ATOM 817 CA GLN 111 -14.541 28.523 12.791 1.00 21.64 10TK 909 ATOM 819 C GLN 111 -14.541 28.523 12.791 1.00 21.64 10TK 918 ATOM 820 CB GLN 111 -14.541 28.523 12.791 1.00 21.26 10TK 918 ATOM 820 CB GLN 111 -16.568 29.321 12.319 1.00 21.26 10TK 911 ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 32.20 10TK 913 ATOM 822 CD GLN 111 -16.527 30.222 11.144 1.00 32.20 10TK 913 ATOM 823 OE1 GLN 111 -16.503 29.455 9.825 1.00 37.67 10TK 915 ATOM 823 OE1 GLN 111 -17.440 28.718 9.511 1.00 42.78 10TK 915 ATOM 825 N GLO 112 -14.292 28.743 14.084 1.00 20.80 10TK 915 ATOM 825 N GLO 112 -14.292 28.743 14.084 1.00 20.80 10TK 917 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 10TK 918 ATOM 827 C GLO 112 -12.923 29.262 16.075 1.00 19.26 10TK 918 ATOM 827 C GLO 112 -12.923 29.262 16.075 1.00 19.26 10TK 918 ATOM 828 O GLU 112 -10.777 28.517 13.705 1.00 19.26 10TK 918 ATOM 829 CB GLU 112 -13.276 30.607 18.157 1.00 19.00 10TK 924 ATOM 827 C GLO 112 -13.276 30.607 18.157 1.00 19.00 10TK 924 ATOM 827 C GLO 112 -13.276 30.607 18.157 1.00 19.00 10TK 924 ATOM 827 C GLO 112 -13.276 30.607 18.157 1.00 19.00 10TK 924 ATOM 827 C GLO 112 -13.276 30.607 18.157 1.00 19.00 10TK 924 ATOM 827 C GLO 113 -1.223 25.666 12.99 1.00 19.09 10TK 928 ATOM 827 C GLO 113 -1.123 25.803 13.908 1.00 18.95 10TK 928 ATOM 827 C GLO 113 -1.123 25.803 13.908 1.00 18.95 10TK 928 ATOM 827 C GLO 113 -									
ATOM 810 0 GLU 110 -14.895 25.590 13.019 1.00 20.43 1DIK 902 ATOM 812 CG GLU 110 -17.893 25.590 13.019 1.00 20.43 1DIK 903 ATOM 813 CD GLU 110 -18.563 23.605 15.104 1.00 22.70 1DIK 903 ATOM 814 CE1 GLU 110 -20.346 23.513 13.574 1.00 22.70 1DIK 904 ATOM 815 CE2 GLU 110 -20.346 23.513 13.574 1.00 22.96 1DIK 905 ATOM 816 CE1 GLU 110 -20.346 23.513 13.574 1.00 27.96 1DIK 906 ATOM 816 N GLN 111 -16.489 27.153 13.402 1.00 27.96 1DIK 906 ATOM 817 CA GLN 111 -16.489 27.153 13.402 1.00 18.95 1DIK 906 ATOM 818 C GLN 111 -15.963 28.094 12.247 1.00 18.95 1DIK 908 ATOM 818 C GLN 111 -14.541 28.523 12.791 1.00 21.26 1DIK 910 ATOM 819 O GLN 111 -16.868 29.321 12.791 1.00 21.26 1DIK 910 ATOM 820 CB GLN 111 -16.868 29.321 12.319 1.00 21.26 1DIK 911 ATOM 821 CG GLN 111 -16.527 30.222 11.194 1.00 21.26 1DIK 913 ATOM 822 CD GLN 111 -16.527 30.222 11.194 1.00 22.20 1DIK 913 ATOM 823 OEI GLN 111 -16.527 30.222 11.194 1.00 22.20 1DIK 913 ATOM 824 WE2 GLN 111 -16.527 30.222 11.194 1.00 22.20 1DIK 913 ATOM 825 N GLU 112 -12.503 29.455 9.825 10.00 37.67 1DIK 914 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 37.67 1DIK 914 ATOM 827 C GLU 112 -12.960 29.137 14.550 1.00 37.67 1DIK 915 ATOM 828 NEZ GLN 111 -15.432 29.620 9.051 1.00 34.61 1DIK 915 ATOM 829 CB GLU 112 -12.960 29.137 14.550 1.00 37.67 1DIK 915 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 919 ATOM 827 C GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 919 ATOM 830 CG GLU 112 -13.575 30.522 16.659 1.00 19.50 1DIK 921 ATOM 831 CD GLU 112 -12.960 29.137 14.550 1.00 19.92 1DIK 922 ATOM 830 CG GLU 112 -13.575 30.522 16.659 1.00 19.50 1DIK 921 ATOM 830 CG GLU 112 -13.715 29.691 18.878 1.00 19.03 1DIK 924 ATOM 831 CD GLU 112 -13.575 30.522 16.659 1.00 19.50 1DIK 923 ATOM 833 CC GLU 113 -1.276 30.592 26.651 10.00 19.50 1DIK 923 ATOM 834 CD LEU 113 -1.276 30.593 13.908 1.00 19.50 1DIK 923 ATOM 835 CA LEU 113 -1.276 30.593 13.908 1.00 19.50 1DIK 931 ATOM 846 CB CA LEU 113 -1.276 30.593 13.908 1.00 19.50 1DIK 931 ATOM 847 CD CA									
ATOM 811 CB GLU 110 -17.843 24.513 14.123 1.00 19.80 10TK 903 ATOM 813 CD GLU 110 -18.563 23.605 15.104 1.00 22.70 10TK 904 ATOM 813 CD GLU 110 -19.803 22.983 14.520 1.00 22.75 10TK 904 ATOM 814 CBI CLU 110 -20.346 23.513 13.524 1.00 22.79 1DTK 905 ATOM 815 CD GLU 110 -20.346 23.513 13.524 1.00 22.79 1DTK 906 ATOM 815 CD GLU 110 -20.237 21.955 15.063 1.00 26.17 1DTK 906 ATOM 816 N GLN 111 -16.489 27.153 13.524 1.00 26.17 1DTK 907 ATOM 817 CA GLN 111 -15.963 28.094 12.427 1.00 20.74 1DTK 908 ATOM 818 C GLN 111 -15.963 28.094 12.427 1.00 20.74 1DTK 908 ATOM 819 C GLN 111 -14.541 28.523 12.791 1.00 21.26 1DTK 908 ATOM 819 C GLN 111 -16.868 29.21 12.319 1.00 21.26 1DTK 913 ATOM 820 CB GLN 111 -16.868 29.231 12.319 1.00 22.20 1DTK 913 ATOM 821 CG GLN 111 -16.523 30.225 11.908 1.00 21.26 1DTK 913 ATOM 822 CD GLN 111 -16.523 30.225 10.00 37.67 1DTK 913 ATOM 822 CD GLN 111 -16.523 30.425 11.444 1.00 32.20 1DTK 913 ATOM 823 CD GLN 111 -16.523 30.425 11.444 1.00 32.20 1DTK 913 ATOM 824 NEZ GLN 111 -17.440 22.718 9.511 1.00 42.78 1DTK 913 ATOM 825 C GLN 111 -17.440 22.718 9.511 1.00 42.78 1DTK 915 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 1DTK 915 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.50 1DTK 913 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.50 1DTK 913 ATOM 826 CA GLU 112 -13.535 30.522 16.669 1.00 19.22 1DTK 922 ATOM 830 CG GLU 112 -13.535 30.522 16.669 1.00 19.22 1DTK 922 ATOM 830 CG GLU 112 -13.535 30.522 16.669 1.00 19.22 1DTK 923 ATOM 831 CD GLU 112 -13.535 30.522 16.669 1.00 19.50 1DTK 923 ATOM 836 CB LEU 113 -11.276 30.607 18.157 1.00 19.60 1DTK 923 ATOM 836 CB LEU 113 -11.276 30.607 18.157 1.00 19.60 1DTK 923 ATOM 836 CB LEU 113 -11.276 30.607 18.157 1.00 19.50 1DTK 923 ATOM 836 CB LEU 113 -11.276 30.607 18.157 1.00 19.50 1DTK 923 ATOM 836 CB LEU 113 -11.276 30.607 18.57 1DTK 925 ATOM 836 CB LEU 113 -11.276 30.607 18.57 1DTK 925 ATOM 836 CB LEU 113 -11.276 30.607 18.57 1DTK 925 ATOM 836 CB LEU 113 -12.576 30.593 10.00 19.51 1DTK 936 ATOM 844 C VAL 114 -12.104 25.840 11.641 1.00 19.54 1D									
ATOM 813 CD GLU 110 -18.563 23.605 15.104 1.00 22.70 10TK 904 ATOM 813 CD GLU 110 -19.803 22.983 14.520 1.00 23.25 1DIK 905 ATOM 814 CD1 GLU 110 -20.346 23.513 13.524 1.00 27.96 1DIK 905 ATOM 815 CD2 GLU 110 -20.346 23.513 13.524 1.00 27.96 1DIK 905 ATOM 816 N GLN 111 -15.404 23.513 13.524 1.00 27.96 1DIK 906 ATOM 816 N GLN 111 -15.404 23.513 13.402 1.00 18.95 1DIK 906 ATOM 817 CA GLN 111 -15.404 28.523 13.402 1.00 18.95 1DIK 908 ATOM 818 C GLN 111 -15.963 28.094 12.427 1.00 20.74 1DIK 909 ATOM 818 C GLN 111 -13.679 28.651 11.908 1.00 21.64 1DIK 910 ATOM 819 O GLN 111 -16.868 29.321 12.319 1.00 26.01 1DIK 912 ATOM 820 CB GLN 111 -16.503 29.455 9.232 12.319 1.00 26.01 1DIK 912 ATOM 821 CC GLN 111 -16.503 29.455 9.825 1.00 37.67 1DIK 914 ATOM 823 ODI GLN 111 -17.440 28.718 9.511 1.00 42.78 1DIK 914 ATOM 824 MEZ GLN 111 -17.440 28.718 9.511 1.00 42.78 1DIK 914 ATOM 825 N GLO 112 -14.292 28.743 14.084 1.00 20.80 1DIK 917 ATOM 826 CA GLU 112 -14.292 28.743 14.084 1.00 20.80 1DIK 917 ATOM 827 C GLU 112 -14.292 28.743 14.084 1.00 20.80 1DIK 918 ATOM 827 C GLU 112 -12.960 29.137 14.550 1.00 19.50 1DIK 918 ATOM 828 O GLU 112 -12.960 29.137 14.550 1.00 19.50 1DIK 918 ATOM 827 C GLU 112 -13.515 30.522 16.669 1.00 19.02 1DIK 920 ATOM 829 CB GLU 112 -12.960 29.137 14.550 1.00 19.60 1DIK 921 ATOM 829 CB GLU 112 -13.555 30.522 16.669 1.00 19.02 1DIK 922 ATOM 831 CD GLU 112 -13.555 30.522 16.669 1.00 19.02 1DIK 922 ATOM 831 CD GLU 112 -13.555 30.522 16.669 1.00 19.02 1DIK 923 ATOM 833 CD GLU 112 -13.555 30.522 16.669 1.00 19.03 1DIK 924 ATOM 835 CA LEU 113 -12.137 26.841 14.252 1.00 19.54 1DIK 933 ATOM 836 CB LEU 113 -12.137 26.841 14.252 1.00 19.54 1DIK 933 ATOM 836 CB LEU 113 -13.523 10.522 16.669 1.00 19.03 1DIK 924 ATOM 835 CA LEU 113 -13.523 10.522 16.669 1.00 19.03 1DIK 924 ATOM 835 CA LEU 113 -12.535 30.522 16.669 1.00 19.03 1DIK 925 ATOM 836 CB LEU 113 -12.535 30.522 16.669 1.00 19.03 1DIK 925 ATOM 837 C LEU 113 -12.535 30.522 16.669 1.00 19.03 1DIK 925 ATOM 836 CB LEU 113 -12.536 30.507 18.587 1.00 19.03 1.00 19.03 1.									
ATOM 814 OEI GLU 110 -19.803 22.983 14.520 1.00 23.25 1DIK 905 ATOM 815 OE2 GLU 110 -20.346 23.513 13.524 1.00 27.96 1DIK 905 ATOM 816 N GLN 111 -16.489 27.153 13.524 1.00 27.96 1DIK 905 ATOM 817 CA GLN 111 -16.489 27.153 13.402 1.00 18.95 1DIK 905 ATOM 817 CA GLN 111 -15.963 28.094 12.427 1.00 20.74 1DIK 907 ATOM 818 C GLN 111 -14.541 28.523 12.791 1.00 21.64 1DIK 910 ATOM 819 O GLN 111 -16.868 29.321 12.791 1.00 21.64 1DIK 910 ATOM 820 CB GLN 111 -16.868 29.321 12.319 1.00 26.01 1DIK 910 ATOM 821 CG GLN 111 -16.563 29.321 11.144 1.00 32.20 1DIK 911 ATOM 822 CD GLN 111 -16.503 29.455 9.825 1.00 37.67 1DIK 913 ATOM 823 OEI GLN 111 -16.503 29.455 9.825 1.00 37.67 1DIK 914 ATOM 824 NE2 GLN 111 -17.440 28.718 9.511 1.00 42.78 1DIK 915 ATOM 825 N GLU 112 -14.292 28.743 14.084 1.00 29.00 1DIK 917 ATOM 826 CA GLU 112 -14.292 28.743 14.084 1.00 29.00 1DIK 917 ATOM 827 C GLU 112 -12.960 29.137 14.550 1.00 19.50 1DIK 918 ATOM 828 O GLU 112 -12.960 29.137 14.550 1.00 19.50 1DIK 918 ATOM 828 O GLU 112 -12.930 29.135 14.131 1.00 19.50 1DIK 919 ATOM 828 O GLU 112 -11.875 28.135 14.131 1.00 19.50 1DIK 919 ATOM 828 O GLU 112 -11.875 28.135 14.131 1.00 19.50 1DIK 920 ATOM 830 CG GLU 112 -13.735 30.522 16.665 1.00 19.60 1DIK 921 ATOM 831 CD GLU 112 -13.276 30.607 18.157 1.00 19.02 1DIK 923 ATOM 832 OEI GLU 112 -13.276 30.607 18.157 1.00 19.02 1DIK 923 ATOM 833 CD GLU 112 -13.276 30.607 18.157 1.00 19.02 1DIK 923 ATOM 834 N LEU 113 -11.213 25.803 13.576 18.611 1.00 19.54 1DIK 923 ATOM 835 CD LEU 113 -11.213 25.803 13.908 1.00 19.02 1DIK 923 ATOM 836 CD LEU 113 -11.213 25.803 13.908 1.00 19.02 1DIK 923 ATOM 836 CD LEU 113 -11.213 25.803 13.908 1.00 19.05 1DIK 933 ATOM 840 CD1 LEU 113 -12.22 25.550 10.031 1.00 29.07 1DIK 933 ATOM 840 CD1 LEU 113 -12.266 6.91 9.779 1.00 19.94 1DIK 933 ATOM 840 CD1 LEU 113 -12.266 6.91 9.779 1.00 19.95 1DIK 935 ATOM 840 CD1 LEU 113 -12.266 6.91 9.779 1.00 19.95 1DIK 935 ATOM 840 CD1 LEU 113 -12.266 6.91 9.779 1.00 19.95 1DIK 934 ATOM 840 CD1 LEU 113 -12.266 6.91 9.779 1.00 19.95 1DIK 934 ATOM 840 CD									
ATOM 815 OE2 GLU 110 -20.346 23.513 13.524 1.00 27.96 1DIK 906 ATOM 816 N GLN 111 -16.489 27.153 13.062 1.00 26.17 1DIK 906 ATOM 817 CA GLN 111 -16.489 27.153 13.062 1.00 18.95 1DIK 908 ATOM 818 C GLN 111 -15.963 28.094 12.427 1.00 20.74 1DIK 909 ATOM 819 O GLN 111 -15.963 28.094 12.427 1.00 20.74 1DIK 909 ATOM 820 CB GLN 111 -14.541 28.523 12.791 1.00 21.26 1DIK 910 ATOM 820 CB GLN 111 -16.868 29.321 12.319 1.00 21.26 1DIK 911 ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 32.20 1DIK 911 ATOM 822 CD GLN 111 -16.557 30.222 11.144 1.00 32.20 1DIK 912 ATOM 823 OE1 GLN 111 -15.432 29.455 9.825 1.00 37.67 1DIK 914 ATOM 823 OE1 GLN 111 -15.432 29.620 9.051 1.00 34.61 1DIK 915 ATOM 825 CD GLU 112 -14.292 28.743 14.084 1.00 20.80 1DIK 915 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 918 ATOM 827 C GLU 112 -11.875 28.135 14.133 1.00 19.50 1DIK 918 ATOM 828 O GLU 112 -11.875 28.135 14.133 1.00 19.50 1DIK 919 ATOM 829 CB GLU 112 -12.930 29.262 16.075 1.00 14.92 1DIK 920 ATOM 830 CG GLU 112 -13.535 30.522 16.669 1.00 19.22 1DIK 922 ATOM 831 CD GLU 112 -13.535 30.522 16.669 1.00 19.22 1DIK 922 ATOM 832 OEI GLU 112 -13.535 30.522 16.669 1.00 19.22 1DIK 922 ATOM 833 OE2 GLU 112 -13.535 30.522 16.669 1.00 19.90 1DIK 923 ATOM 834 N LEU 113 -12.177 28.6841 11.296 1.00 19.90 1DIK 923 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 19.54 1DIK 924 ATOM 836 C LEU 113 -11.223 25.666 12.398 1.00 19.54 1DIK 925 ATOM 837 O LEU 113 -11.223 25.666 12.398 1.00 19.54 1DIK 925 ATOM 838 CB LEU 113 -11.203 25.666 12.398 1.00 19.94 1DIK 930 ATOM 838 CB LEU 113 -11.203 25.666 12.398 1.00 19.94 1DIK 930 ATOM 836 C LEU 113 -11.203 25.666 12.398 1.00 19.94 1DIK 930 ATOM 837 O LEU 113 -11.203 25.666 12.398 1.00 19.94 1DIK 931 ATOM 840 CD1 LEU 113 -11.203 25.666 12.398 1.00 19.94 1DIK 933 ATOM 840 CD1 LEU 113 -11.203 25.666 12.398 1.00 19.94 1DIK 935 ATOM 840 CD1 LEU 113 -11.204 25.840 11.641 1.00 20.73 1DIK 937 ATOM 840 CD2 CD3 13 114 114 1.00 19.555 1DIK 933 ATOM 840 CD3 CD3 115 1.00 19.555 1DIK 933 ATOM 840 CD3 CD3 115 1.00 19.555 1DI			CD GLU				14.520	1.00 23.25	
ATOM 816 N GLN 111 -16.489 27.153 13.402 1.00 18.95 10IK 908 ATOM 818 C GLN 111 -15.963 28.094 12.427 1.00 20.74 10IK 909 ATOM 819 O GLN 111 -14.541 28.523 12.791 1.00 21.64 10IK 910 ATOM 819 O GLN 111 -16.547 28.651 11.908 1.00 21.26 10IK 911 ATOM 820 CB GLN 111 -16.868 29.321 12.319 1.00 26.01 10IK 912 ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 32.20 10IK 913 ATOM 822 CD GLN 111 -16.503 39.455 9.825 1.00 37.67 10IK 914 ATOM 823 O21 GLN 111 -16.503 29.455 9.825 1.00 37.67 10IK 914 ATOM 824 NEZ GLN 111 -17.440 28.718 9.511 1.00 42.78 10IK 915 ATOM 825 N GLU 112 -14.292 28.743 14.084 1.00 20.80 10IK 915 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 10IK 917 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 10IK 918 ATOM 827 C GLU 112 -12.960 29.137 14.550 1.00 19.26 10IK 919 ATOM 828 O GLU 112 -12.960 29.137 14.550 1.00 19.26 10IK 919 ATOM 828 O GLU 112 -12.932 29.262 16.075 1.00 19.50 10IK 929 ATOM 829 CB GLU 112 -12.932 29.262 16.075 1.00 19.60 10IK 921 ATOM 830 CG GLU 112 -13.757 28.135 14.133 1.00 19.50 10IK 923 ATOM 831 CD GLU 112 -13.753 30.522 16.669 1.00 19.22 10IK 922 ATOM 832 OEI GLU 112 -13.712 29.691 18.878 1.00 19.03 10IK 924 ATOM 833 OE2 GLU 112 -13.712 39.691 18.878 1.00 19.03 10IK 924 ATOM 834 N LEU 113 -12.137 26.841 14.291 1.00 19.54 10IK 925 ATOM 835 CA LEU 113 -12.137 25.666 12.398 1.00 19.69 10IK 923 ATOM 836 CB LEU 113 -11.023 25.666 12.398 1.00 19.69 10IK 923 ATOM 837 O LEU 113 -12.177 26.841 14.292 1.00 19.09 10IK 923 ATOM 838 CB LEU 113 -11.213 25.803 13.908 1.00 19.69 10IK 923 ATOM 839 CG LEU 113 -12.636 31.576 18.611 1.00 19.54 10IK 925 ATOM 836 CB LEU 113 -12.636 31.576 18.611 1.00 19.54 10IK 925 ATOM 837 O LEU 113 -12.92 28.955 10.031 1.00 19.06 10IK 923 ATOM 838 CB LEU 113 -12.137 26.891 19.898 1.00 19.69 10IK 923 ATOM 839 CG LEU 113 -12.636 81.506 12.398 1.00 19.69 10IK 923 ATOM 830 CG LEU 113 -10.01 25.552 16.819 1.00 19.60 10IK 933 ATOM 840 CD LEU 113 -9.907 25.411 11.929 1.00 19.09 10IK 933 ATOM 840 CD LEU 113 -9.907 25.411 10.929 1.00 19.00 10IK 933 ATOM 840 CD LE					-20.346	23.513	13.524	1.00 27.96	1DIK 906
ATOM 818 C GLN 111 -15.963 28.094 12.427 1.00 20.74 1DIK 909 ATOM 819 O GLN 111 -14.541 28.523 12.791 1.00 21.26 1DIK 910 ATOM 820 CB GLN 111 -14.541 28.523 12.791 1.00 21.26 1DIK 911 ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 32.20 1DIK 912 ATOM 822 CD GLN 111 -16.527 30.222 11.144 1.00 32.20 1DIK 913 ATOM 823 OE1 GLN 111 -16.527 30.222 11.144 1.00 32.20 1DIK 913 ATOM 823 OE1 GLN 111 -16.503 29.455 9.825 1.00 37.67 1DIK 914 ATOM 824 NE2 GLN 111 -15.432 29.620 9.051 1.00 42.78 1DIK 915 ATOM 825 N GLU 112 -14.292 28.743 14.084 1.00 20.80 1DIK 917 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 918 ATOM 827 C GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 918 ATOM 828 O GLU 112 -10.777 28.537 13.705 1.00 14.92 1DIK 920 ATOM 829 CB GLU 112 -10.777 28.537 13.705 1.00 14.92 1DIK 920 ATOM 820 GG GLU 112 -12.932 29.262 16.075 1.00 19.22 1DIK 920 ATOM 831 CD GLU 112 -13.535 30.522 16.669 1.00 19.22 1DIK 923 ATOM 831 CD GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 923 ATOM 831 CD GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -13.72 29.691 18.878 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -13.72 29.691 18.878 1.00 19.03 1DIK 924 ATOM 834 N LEU 113 -12.177 26.841 14.266 12.398 1.00 19.54 1DIK 925 ATOM 835 CA LEU 113 -12.177 26.841 14.266 12.398 1.00 19.56 1DIK 925 ATOM 836 C LEU 113 -12.27 26.841 14.266 12.398 1.00 19.56 1DIK 927 ATOM 837 OLEU 113 -12.27 29.691 18.878 1.00 19.09 1DIK 928 ATOM 838 CB LEU 113 -11.213 25.866 12.398 1.00 19.09 1DIK 929 ATOM 838 CB LEU 113 -11.203 25.666 12.398 1.00 19.09 1DIK 929 ATOM 838 CB LEU 113 -12.177 26.841 14.266 12.398 1.00 19.09 1DIK 929 ATOM 838 CB LEU 113 -12.07 26.841 14.266 12.398 1.00 19.09 1DIK 937 ATOM 846 CB VAL 144 -12.104 25.840 11.641 1.00 15.58 1DIK 937 ATOM 847 CD LEU 13 -12.27 29.097 25.411 11.929 1.00 19.09 1DIK 938 ATOM 848 CB LEU 13 -11.203 25.666 12.398 1.00 19.09 1DIK 938 ATOM 849 N ASN 115 -10.371 29.255 10.031 1.00 19.65 1DIK 937 ATOM 846 CB VAL 144 -12.204 25.840 11.641 1.00 19.65 1DIK 938 ATOM 848 CG VAL 144 -12.204 25.840					-20.237	21.955	15.063	1.00 26.17	1DIK 907
ATOM 819 C GLN 111 -14.541 28.523 12.791 1.00 21.64 1DIK 910 ATOM 820 CB GLN 111 -16.568 29.321 12.319 1.00 26.01 1DIK 912 ATOM 821 CG GLN 111 -16.868 29.321 12.319 1.00 26.01 1DIK 912 ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 32.20 1DIK 913 ATOM 823 OE1 GLN 111 -16.503 29.455 9.825 1.00 37.67 1DIK 914 ATOM 823 OE1 GLN 111 -17.440 28.718 9.511 1.00 42.78 1DIK 915 ATOM 824 NEZ GLN 111 -17.440 28.718 9.511 1.00 42.78 1DIK 915 ATOM 825 N GLU 112 -14.292 28.743 14.084 1.00 20.80 1DIK 917 ATOM 826 CA GLU 112 -14.292 28.743 14.084 1.00 20.80 1DIK 917 ATOM 827 C GLU 112 -11.875 28.135 14.133 1.00 19.26 1DIK 918 ATOM 828 O GLU 112 -11.875 28.135 14.133 1.00 19.50 1DIK 929 ATOM 829 CB GLU 112 -10.777 28.537 13.705 1.00 19.60 1DIK 921 ATOM 820 CG GLU 112 -13.753 30.522 16.669 1.00 19.22 1DIK 922 ATOM 831 CD GLU 112 -13.753 30.522 16.669 1.00 19.22 1DIK 921 ATOM 832 OE1 GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 923 ATOM 832 OE1 GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -12.636 31.576 18.611 1.00 19.54 1DIK 925 ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 925 ATOM 835 CA LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 926 ATOM 836 C LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 926 ATOM 837 O LEU 113 -12.177 26.841 14.262 1.00 19.03 1DIK 923 ATOM 838 CB LEU 113 -11.203 25.666 12.398 1.00 19.66 1DIK 928 ATOM 839 CG LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 926 ATOM 840 CD LEU 113 -12.592 24.471 14.559 1.00 19.06 1DIK 931 ATOM 840 CD LEU 113 -12.277 26.841 14.262 1.00 15.87 1DIK 926 ATOM 841 CD LEU 113 -12.646 10.0					-16.489			1.00 18.95	
ATOM 819 O GLN 111 -13.679 28.651 11.908 1.00 21.26 IDIK 911 ATOM 820 CB GLN 111 -16.868 29.321 12.319 1.00 32.20 IDIK 912 ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 32.20 IDIK 913 ATOM 822 CD GLN 111 -16.503 29.455 9.825 1.00 37.67 IDIK 913 ATOM 823 O21 GLN 111 -15.432 29.455 9.825 1.00 37.67 IDIK 914 ATOM 823 O21 GLN 111 -15.432 29.620 9.051 1.00 34.61 IDIK 915 ATOM 824 NEZ GLN 111 -15.432 29.620 9.051 1.00 34.61 IDIK 915 ATOM 825 N GLU 112 -14.292 28.743 4.084 1.00 20.80 IDIK 917 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 IDIK 918 ATOM 827 C GLU 112 -12.960 29.137 14.550 1.00 14.92 IDIK 918 ATOM 828 O GLU 112 -10.777 28.537 13.705 1.00 14.92 IDIK 920 ATOM 829 CB GLU 112 -10.777 28.537 13.705 1.00 14.92 IDIK 920 ATOM 829 CB GLU 112 -13.535 30.522 16.6075 1.00 19.60 IDIK 912 ATOM 8310 CG GLU 112 -13.535 30.522 16.6075 1.00 19.22 IDIK 923 ATOM 831 CD GLU 112 -13.762 30.607 18.157 1.00 19.02 IDIK 923 ATOM 832 OE1 GLU 112 -13.763 30.507 18.157 1.00 19.02 IDIK 923 ATOM 833 OE2 GLU 112 -13.762 29.691 18.878 1.00 19.03 IDIK 924 ATOM 835 CA LEU 113 -11.203 25.666 12.398 1.00 19.54 IDIK 925 ATOM 835 CA LEU 113 -11.203 25.666 12.398 1.00 18.95 IDIK 927 ATOM 836 CA LEU 113 -11.592 24.471 14.559 1.00 19.94 IDIK 928 ATOM 839 CG LEU 113 -11.592 24.471 14.559 1.00 19.94 IDIK 931 ATOM 840 CDI LEU 113 -11.592 24.471 14.559 1.00 19.94 IDIK 931 ATOM 841 CD LEU 113 -11.592 24.471 14.559 1.00 19.95 IDIK 933 ATOM 842 N VAL 114 -12.104 25.801 10.183 1.00 19.56 IDIK 933 ATOM 845 CA CA LEU 113 -13.246 26.912 1.00 19.61 IDIK 933 ATOM 845 CA CA LEU 113 -13.246 26.929 9.003 1.00 19.57 IDIK 934 ATOM 845 CA NA NA NA NA NA NA NA									
ATOM 820 CB GLN 111 -16.868 29.321 12.319 1.00 26.01 10IX 912 ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 32.20 10IX 913 ATOM 822 CD GLN 111 -16.503 29.455 9.855 1.00 37.67 10IX 914 ATOM 823 OR1 GLN 111 -17.440 28.718 9.511 1.00 42.78 10IX 915 ATOM 824 NEZ GLN 111 -15.432 29.620 9.051 1.00 34.61 10IX 915 ATOM 825 N GLU 112 -14.292 28.743 14.084 1.00 20.80 10IX 915 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 10IX 918 ATOM 827 C GLU 112 -11.875 28.135 14.133 1.00 19.50 10IX 919 ATOM 828 O GLU 112 -10.777 28.537 13.705 1.00 19.50 10IX 929 ATOM 829 CB GLU 112 -12.923 29.262 16.075 1.00 19.60 10IX 921 ATOM 830 CG GLU 112 -13.535 30.522 16.669 1.00 19.22 10IX 922 ATOM 831 CD GLU 112 -13.712 29.691 18.878 1.00 19.03 10IX 923 ATOM 833 OE2 GLU 112 -13.712 29.691 18.878 1.00 19.03 10IX 924 ATOM 833 OE2 GLU 112 -13.712 29.691 18.878 1.00 19.03 10IX 924 ATOM 834 N LEU 113 -12.177 26.841 14.259 1.00 19.54 10IX 925 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 19.54 10IX 925 ATOM 836 C LEU 113 -11.213 25.803 13.908 1.00 19.60 10IX 927 ATOM 837 O LEU 113 -1.213 25.803 13.908 1.00 19.60 10IX 928 ATOM 838 CB LEU 113 -1.023 25.666 12.398 1.00 19.66 10IX 928 ATOM 839 CG LEU 113 -1.035 25.411 11.929 1.00 19.60 10IX 928 ATOM 839 CG LEU 113 -1.036 24.283 15.966 1.00 19.61 10IX 930 ATOM 844 C LEU 113 -1.203 25.666 12.398 1.00 19.66 10IX 928 ATOM 848 CB LEU 113 -1.204 25.800 10.883 1.00 19.61 10IX 931 ATOM 840 CO1 LEU 113 -1.206 26.92 9.003 1.00 19.61 10IX 931 ATOM 841 CC LEU 113 -1.206 26.92 9.003 1.00 19.61 10IX 933 ATOM 842 N VAL 114 -12.104 25.800 10.183 1.00 19.62 10IX 933 ATOM 845 CA VAL 114 -12.104 26.692 9.003 1.00 19.61 10IX 933 ATOM 848 CG VAL 114 -13.411 26.071 9.556 1.00 20.06 10IX 933 ATOM 849 N ASN 115 -1.0371 29.255 10.031 1.00 19.62 10IX 934 ATOM 848 CG VAL 114 -13.411 26.071 9.526 1.00 21.09 10IX 934 ATOM 849 N ASN 115 -1.0371 29.255 10.031 1.00 19.62 10IX 945 ATOM 840 CG1 VAL 114 -12.204 25.800 10.183 1.00 19.62 10IX 945 ATOM 847 CG1 VAL 114 -12.204 25.800 10.185 1.00 19.65 10IX 945 ATOM 848 CG ASN 115 -									
ATOM 821 CG GLN 111 -16.527 30.222 11.144 1.00 32.20 1DIK 913 ATOM 822 CD GLN 111 -15.633 29.455 9.825 1.00 37.67 1DIK 914 ATOM 823 OE1 GLN 111 -15.432 29.620 9.511 1.00 42.78 1DIK 915 ATOM 824 NE2 GLN 111 -15.432 29.620 9.511 1.00 34.61 1DIK 915 ATOM 825 N GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 918 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 918 ATOM 827 C GLU 112 -11.875 28.135 14.131 1.00 19.50 1DIK 919 ATOM 828 O GLU 112 -10.777 28.537 13.705 1.00 14.92 1DIK 920 ATOM 829 CB GLU 112 -12.923 29.262 16.075 1.00 19.50 1DIK 921 ATOM 830 CG GLU 112 -13.535 30.522 16.075 1.00 19.60 1DIK 921 ATOM 831 CD GLU 112 -13.276 30.607 18.157 1.00 19.02 1DIK 922 ATOM 831 CD GLU 112 -13.276 30.607 18.157 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 924 ATOM 834 N LEU 113 -12.636 31.576 18.611 1.00 19.54 1DIK 925 ATOM 835 CA LEU 113 -11.021 25.803 13.908 1.00 18.95 1DIK 926 ATOM 836 C LEU 113 -11.023 25.666 12.398 1.00 19.94 1DIK 926 ATOM 837 O LEU 113 -11.023 25.666 12.398 1.00 19.94 1DIK 927 ATOM 839 CG LEU 113 -11.024 25.803 13.908 1.00 19.66 1DIK 927 ATOM 839 CG LEU 113 -11.026 24.471 14.559 1.00 19.09 1DIK 927 ATOM 839 CG LEU 113 -11.026 24.471 14.559 1.00 19.09 1DIK 927 ATOM 840 CD1 LEU 113 -9.907 25.411 11.929 1.00 19.09 1DIK 923 ATOM 841 CD2 LEU 113 -11.592 24.471 14.559 1.00 19.09 1DIK 923 ATOM 842 C LEU 113 -11.592 24.471 14.559 1.00 19.09 1DIK 923 ATOM 843 CA VAL 114 -12.104 25.840 10.66 1.00 19.61 1DIK 931 ATOM 844 C VAL 114 -12.104 25.840 10.69 10.558 1DIK 935 ATOM 847 CG1 VAL 114 -12.104 25.840 10.69 10.558 1DIK 935 ATOM 848 CG VAL 114 -12.106 24.83 15.966 1.00 19.62 1DIK 933 ATOM 849 N ASN 115 -10.08 26.692 9.003 1.00 20.73 1DIK 935 ATOM 849 N ASN 115 -10.08 26.692 9.003 1.00 20.73 1DIK 936 ATOM 849 N ASN 115 -10.08 26.692 9.003 1.00 20.73 1DIK 937 ATOM 840 CD LEU 113 -13.246 26.333 8.048 1.00 19.62 1DIK 943 ATOM 847 CG1 VAL 114 -10.08 26.692 9.003 1.00 20.73 1DIK 937 ATOM 848 CG VAL 114 -10.08 26.692 9.003 1.00 19.62 1DIK 943 ATOM 849 N ASN 115 -10.084 30.0									
ATOM 822 CD GLN 111 -16.503 29.455 9.825 1.00 37.67 1DIK 914 ATOM 823 OC1 GLN 111 -17.440 28.718 9.511 1.00 42.78 1DIK 915 ATOM 824 NE2 GLN 111 -15.432 29.620 9.511 1.00 34.61 1DIK 915 ATOM 825 N GLU 112 -14.292 28.743 14.084 1.00 20.80 1DIK 917 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 918 ATOM 827 C GLU 112 -11.875 28.135 14.133 1.00 19.50 1DIK 919 ATOM 828 O GLU 112 -10.777 28.537 13.705 1.00 14.92 1DIK 920 ATOM 829 CB GLU 112 -12.923 29.262 16.075 1.00 19.60 1DIK 921 ATOM 830 CG GLU 112 -13.535 30.522 16.669 1.00 19.20 1DIK 922 ATOM 831 CD GLU 112 -13.535 30.522 16.669 1.00 19.20 1DIK 923 ATOM 832 OC1 GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 923 ATOM 833 OC2 GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 924 ATOM 833 OC2 GLU 112 -13.712 29.691 18.878 1.00 19.53 1DIK 926 ATOM 835 CA LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 925 ATOM 835 CA LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 926 ATOM 836 C LEU 113 -11.213 25.803 13.908 1.00 19.54 1DIK 928 ATOM 838 CB LEU 113 -11.023 25.666 12.398 1.00 19.94 1DIK 928 ATOM 838 CB LEU 113 -11.023 25.666 12.398 1.00 19.94 1DIK 928 ATOM 838 CB LEU 113 -11.023 25.666 12.398 1.00 19.94 1DIK 930 ATOM 840 CD1 LEU 113 -9.907 25.411 11.929 1.00 19.09 1DIK 929 ATOM 838 CB LEU 113 -11.023 25.666 12.398 1.00 19.94 1DIK 930 ATOM 840 CD1 LEU 113 -9.950 23.910 15.842 1.00 17.82 1DIK 931 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 933 ATOM 840 CD1 LEU 113 -11.026 24.283 15.966 1.00 19.94 1DIK 933 ATOM 840 CD1 LEU 113 -11.016 24.283 15.966 1.00 19.94 1DIK 933 ATOM 840 CD1 LEU 113 -11.016 24.283 15.966 1.00 19.94 1DIK 933 ATOM 841 CD2 LEU 113 -11.016 24.283 15.966 1.00 19.94 1DIK 933 ATOM 844 C VAL 114 -12.104 25.840 11.641 1.00 20.066 1DIK 934 ATOM 845 CA VAL 114 -12.104 25.840 11.641 1.00 20.06 1DIK 933 ATOM 846 CB VAL 114 -12.104 25.840 11.641 1.00 20.06 1DIK 933 ATOM 847 CG1 VAL 114 -12.104 25.840 11.641 1.00 20.066 1DIK 934 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK					-16.527			1.00 32.20	
ATOM 824 NE2 GLN 111 -15.432 29.620 9.051 1.00 34.61 1DIK 916 ATOM 825 N GLU 112 -14.292 28.743 14.084 1.00 20.80 1DIK 917 ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 918 ATOM 827 C GLU 112 -11.875 28.135 14.133 1.00 19.50 1DIK 919 ATOM 828 O GLU 112 -10.777 28.537 13.705 1.00 14.92 1DIK 920 ATOM 829 CB GLU 112 -12.923 29.262 16.075 1.00 19.60 1DIK 921 ATOM 830 CG GLU 112 -13.515 30.522 16.669 1.00 19.20 1DIK 922 ATOM 831 CD GLU 112 -13.712 29.691 18.878 1.00 19.02 1DIK 923 ATOM 832 OE1 GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -13.636 31.576 18.6611 1.00 19.54 1DIK 925 ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 926 ATOM 835 CA LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 927 ATOM 836 C LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 928 ATOM 837 O LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 928 ATOM 838 CB LEU 113 -11.024 25.800 10.90 19.09 1DIK 920 ATOM 839 CG LEU 113 -11.025 25.526 16.819 1.00 19.94 1DIK 930 ATOM 840 CD1 LEU 113 -11.016 24.283 15.966 1.00 19.94 1DIK 931 ATOM 841 CD2 LEU 113 -11.016 24.283 15.966 1.00 19.961 1DIK 931 ATOM 842 N VAL 114 -12.104 25.800 11.641 1.00 20.06 1DIK 933 ATOM 843 CA VAL 114 -12.104 25.800 11.641 1.00 20.06 1DIK 933 ATOM 844 C VAL 114 -12.104 25.800 11.641 1.00 19.73 1DIK 934 ATOM 845 CA VAL 114 -12.104 25.800 11.641 1.00 20.06 1DIK 935 ATOM 846 CB VAL 114 -12.104 25.800 11.641 1.00 20.07 1DIK 935 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 19.96 1DIK 938 ATOM 848 CC VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 849 N ASN 115 -10.844 30.494 1.00 17.75 1.00 19.96 1DIK 943 ATOM 849 N ASN 115 -10.844 30.494 1.00 776 1.00 19.96 1DIK 943 ATOM 850 CA ASN 115 -8.909 28.985 10.398 1.00 20.48 1DIK 943 ATOM 850 CA ASN 115 -8.909 28.985 10.398 1.00 22.64 1DIK 943 ATOM 850 CA ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948 ATOM 855 ODI ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948								1.00 37.67	1DIK 914
ATOM 825 N GLU 112 -14.292 28.743 14.084 1.00 20.80 IDIK 917 ATOM 826 CA GLU 112 -12.960 29.137 14.580 1.00 19.26 IDIK 918 ATOM 827 C GLU 112 -11.875 28.135 14.133 1.00 19.50 IDIK 918 ATOM 828 O GLU 112 -10.777 28.537 13.705 1.00 14.92 IDIK 920 ATOM 829 CB GLU 112 -10.777 28.537 13.705 1.00 14.92 IDIK 920 ATOM 830 CG GLU 112 -13.535 30.522 16.669 1.00 19.22 IDIK 922 ATOM 831 CD GLU 112 -13.535 30.522 16.669 1.00 19.22 IDIK 922 ATOM 831 CD GLU 112 -13.276 30.607 18.157 1.00 19.02 IDIK 923 ATOM 832 OE1 GLU 112 -13.712 29.691 18.878 1.00 19.03 IDIK 924 ATOM 833 OE2 GLU 112 -12.636 31.576 18.611 1.00 19.54 IDIK 925 ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 IDIK 925 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 18.95 IDIK 927 ATOM 836 C LEU 113 -11.023 25.806 12.398 1.00 19.66 IDIK 928 ATOM 837 O LEU 113 -11.023 25.666 12.398 1.00 19.66 IDIK 928 ATOM 839 CG LEU 113 -11.023 25.666 12.398 1.00 19.66 IDIK 928 ATOM 839 CG LEU 113 -11.023 25.606 12.398 1.00 19.66 IDIK 928 ATOM 839 CG LEU 113 -11.023 25.803 13.908 1.00 19.94 IDIK 930 ATOM 840 CD1 LEU 113 -9.950 23.910 15.842 1.00 17.82 IDIK 932 ATOM 841 CD2 LEU 113 -11.06 24.283 15.966 1.00 19.61 IDIK 931 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 IDIK 932 ATOM 841 CD2 LEU 113 -11.016 24.283 15.966 1.00 19.61 IDIK 933 ATOM 842 N VAL 114 -12.020 25.801 ID.83 1.00 18.34 IDIK 935 ATOM 844 C VAL 114 -12.020 25.801 ID.83 1.00 18.34 IDIK 935 ATOM 844 C VAL 114 -12.020 25.801 ID.83 1.00 19.73 IDIK 937 ATOM 845 C VAL 114 -12.04 25.840 ID.641 1.00 20.06 IDIK 938 ATOM 848 CG2 VAL 114 -12.020 25.801 ID.83 1.00 19.73 IDIK 937 ATOM 845 C VAL 114 -12.04 25.840 ID.69 9.779 1.00 19.73 IDIK 937 ATOM 846 CB VAL 114 -12.04 10.8 26.692 9.003 1.00 20.73 IDIK 935 ATOM 848 CG2 VAL 114 -12.040 25.801 ID.83 1.00 19.73 IDIK 935 ATOM 848 CG2 VAL 114 -12.040 10.8 26.692 9.003 1.00 20.73 IDIK 935 ATOM 848 CG2 VAL 114 -12.040 10.8 26.692 9.003 1.00 20.73 IDIK 935 ATOM 848 CG2 VAL 114 -12.040 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00									
ATOM 826 CA GLU 112 -12.960 29.137 14.550 1.00 19.26 1DIK 918 ATOM 827 C GLU 112 -10.777 28.537 13.705 1.00 14.92 1DIK 920 ATOM 829 CB GLU 112 -12.923 29.262 16.075 1.00 14.92 1DIK 920 ATOM 830 CG GLU 112 -13.535 30.522 16.669 1.00 19.20 1DIK 921 ATOM 831 CD GLU 112 -13.535 30.522 16.669 1.00 19.02 1DIK 922 ATOM 831 CD GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 923 ATOM 832 OE1 GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -12.636 31.576 18.611 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -12.636 31.576 18.611 1.00 19.54 1DIK 925 ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 926 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 18.95 1DIK 927 ATOM 836 C LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 927 ATOM 836 C LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 928 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.09 1DIK 929 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.09 1DIK 929 ATOM 839 CG LEU 113 -11.592 24.471 14.559 1.00 19.61 1DIK 921 ATOM 840 CD1 LEU 113 -11.016 24.283 15.966 1.00 19.61 1DIK 931 ATOM 840 CD1 LEU 113 -9.907 25.511 11.929 1.00 19.61 1DIK 931 ATOM 841 CD2 LEU 113 -11.016 24.283 15.966 1.00 19.61 1DIK 931 ATOM 842 N VAL 114 -12.044 25.840 11.641 1.00 20.06 1DIK 933 ATOM 842 N VAL 114 -12.04 25.840 11.641 1.00 20.06 1DIK 933 ATOM 842 N VAL 114 -12.04 25.840 11.641 1.00 20.06 1DIK 933 ATOM 844 C VAL 114 -12.04 25.840 11.641 1.00 20.06 1DIK 934 ATOM 845 O VAL 114 -12.04 25.840 11.641 1.00 20.06 1DIK 934 ATOM 845 C AASN 115 -10.08 26.692 9.003 1.00 20.73 1DIK 936 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 849 N ASN 115 -10.08 26.692 9.003 1.00 20.73 1DIK 938 ATOM 849 N ASN 115 -10.08 26.692 9.003 1.00 20.73 1DIK 938 ATOM 849 N ASN 115 -10.08 26.692 9.003 1.00 20.48 1DIK 938 ATOM 850 CA ASN 115 -0.0371 29.255 10.031 1.00 19.27 1DIK 942 ATOM 851 CA ASN 115 -0.094 31.09 10.775 1.00 19.85 1DIK 944 ATOM 855 ODI ASN 115		829							
ATOM 827 C GLU 112 -11.875 28.135 14.133 1.00 19.50 1DIK 919 ATOM 828 O GLU 112 -10.777 28.537 13.705 1.00 14.92 1DIK 920 ATOM 830 CG GLU 112 -12.923 29.262 16.675 1.00 19.60 1DIK 921 ATOM 831 CD GLU 112 -13.535 30.522 16.669 1.00 19.22 1DIK 922 ATOM 832 CEI GLU 112 -13.535 30.522 16.669 1.00 19.02 1DIK 923 ATOM 832 CEI GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -12.636 31.576 18.611 1.00 19.54 1DIK 925 ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 925 ATOM 835 CA LEU 113 -11.217 25.666 12.398 1.00 19.66 1DIK 927 ATOM 836 C LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 928 ATOM 837 O LEU 113 -11.592 24.471 14.559 1.00 19.94 1DIK 928 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.94 1DIK 930 ATOM 839 CG LEU 113 -11.592 24.471 14.559 1.00 19.94 1DIK 931 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 932 ATOM 841 CD2 LEU 113 -11.90 25.552 16.819 1.00 17.82 1DIK 932 ATOM 842 N VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 933 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 935 ATOM 844 C VAL 114 -12.020 25.801 10.183 1.00 19.73 1DIK 936 ATOM 845 O VAL 114 -11.039 26.692 9.003 1.00 20.73 1DIK 936 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 20.06 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 20.073 1DIK 936 ATOM 849 N ASN 115 -10.371 29.255 10.031 1.00 19.62 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 20.08 1DIK 938 ATOM 849 N ASN 115 -10.245 28.115 10.322 1.00 19.62 1DIK 943 ATOM 850 CA ASN 115 -0.084 30.494 10.776 1.00 19.65 1DIK 943 ATOM 851 C ASN 115 -0.084 30.494 10.776 1.00 19.96 1DIK 943 ATOM 855 ODI ASN 115 -10.084 30.494 10.775 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -10.684 30.494 10.775 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947		826				28.743		1.00 20.80	
ATOM 828 O GLU 112 -10.777 28.537 13.705 1.00 14.92 1DIK 920 ATOM 829 CB GLU 112 -12.923 29.262 16.075 1.00 19.60 1DIK 921 ATOM 830 CG GLU 112 -13.535 30.522 16.669 1.00 19.22 1DIK 922 ATOM 831 CD GLU 112 -13.276 30.607 18.157 1.00 19.02 1DIK 923 ATOM 832 CE1 GLU 112 -13.276 30.607 18.157 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -12.636 31.576 18.611 1.00 19.54 1DIK 925 ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 925 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 19.54 1DIK 927 ATOM 836 C LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 927 ATOM 836 C LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 928 ATOM 837 O LEU 113 -11.592 24.471 14.559 1.00 19.94 1DIK 920 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.94 1DIK 930 ATOM 839 CG LEU 113 -11.016 24.283 15.966 1.00 19.61 1DIK 931 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 932 ATOM 841 CD2 LEU 113 -11.016 24.283 15.966 1.00 19.61 1DIK 931 ATOM 842 N VAL 114 -12.020 25.801 10.183 1.00 17.82 1DIK 933 ATOM 842 N VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 933 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 935 ATOM 845 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 935 ATOM 845 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 935 ATOM 846 CB VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 935 ATOM 847 CG1 VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 936 ATOM 847 CG1 VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 936 ATOM 847 CG1 VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 936 ATOM 849 N ASN 115 -10.671 9.525 10.031 1.00 19.27 1DIK 937 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 939 ATOM 849 N ASN 115 -10.437 29.255 10.031 1.00 19.27 1DIK 943 ATOM 850 CA ASN 115 -7.993 29.371 9.673 1.00 19.85 1DIK 943 ATOM 850 CA ASN 115 -7.993 29.371 9.673 1.00 19.85 1DIK 943 ATOM 850 CA ASN 115 -7.993 29.371 9.673 1.00 19.85 1DIK 943 ATOM 855 CDI ASN 115 -10.245 28.115 10.322 1.00 19.85 1DIK 943 ATOM 855 CDI ASN 115 -12.694 31.09 10.175 1.00 22.64 1DIK 943 ATOM 855 CDI ASN 115 -12.694 31.09 10.175 1.00 22.64 1DIK 943 ATOM 855 CDI ASN									
ATOM 830 CG GLU 112 -12.923 29.262 16.075 1.00 19.60 101K 921 ATOM 830 CG GLU 112 -13.535 30.522 16.669 1.00 19.22 1DIK 922 ATOM 831 CD GLU 112 -13.276 30.607 18.157 1.00 19.02 1DIK 923 ATOM 832 CE1 GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 924 ATOM 833 CE2 GLU 112 -12.636 31.576 18.611 1.00 19.54 1DIK 925 ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 925 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 18.95 1DIK 927 ATOM 836 C LEU 113 -11.213 25.803 13.908 1.00 18.95 1DIK 927 ATOM 837 O LEU 113 -11.223 25.666 12.398 1.00 19.66 1DIK 928 ATOM 838 CB LEU 113 -11.023 25.666 12.398 1.00 19.09 1DIK 929 ATOM 838 CB LEU 113 -11.023 25.666 12.398 1.00 19.09 1DIK 929 ATOM 838 CB LEU 113 -11.023 25.666 12.398 1.00 19.09 1DIK 929 ATOM 839 CG LEU 113 -9.997 25.411 11.929 1.00 19.09 1DIK 929 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 930 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 931 ATOM 841 CD2 LEU 113 -11.090 25.552 16.819 1.00 15.58 1DIK 931 ATOM 842 N VAL 114 -12.104 25.840 11.641 1.00 20.06 1DIK 933 ATOM 842 N VAL 114 -12.104 25.840 11.641 1.00 20.06 1DIK 934 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 935 ATOM 845 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 849 N ASN 115 -10.371 29.255 10.031 1.00 19.62 1DIK 940 ATOM 849 N ASN 115 -10.371 29.255 10.031 1.00 19.62 1DIK 942 ATOM 850 CA ASN 115 -0.0844 30.494 10.776 1.00 19.06 1DIK 943 ATOM 850 CA ASN 115 -0.0844 30.494 10.776 1.00 19.06 1DIK 943 ATOM 855 CD ASN 115 -0.0844 30.494 10.776 1.00 19.06 1DIK 943 ATOM 855 CD ASN 115 -10.644 30.494 10.776 1.00 19.06 1DIK 947 ATOM 856 CD ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 855 CD ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 855 CD ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 CD ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 CD									
ATOM 830 CG GGLU 112 -13.535 30.522 16.669 1.00 19.22 1DIK 923 ATOM 831 CD GLU 112 -13.712 29.691 18.878 1.00 19.02 1DIK 923 ATOM 832 OE1 GLU 112 -12.636 31.576 18.611 1.00 19.03 1DIK 924 ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 925 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 18.95 1DIK 927 ATOM 836 C LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 928 ATOM 837 O LEU 113 -9.907 25.411 11.929 1.00 19.09 1DIK 928 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.09 1DIK 929 ATOM 839 CG LEU 113 -11.592 24.471 14.559 1.00 19.94 1DIK 930 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 931 ATOM 841 CD2 LEU 113 -11.90 25.552 16.819 1.00 17.82 1DIK 932 ATOM 842 N VAL 114 -12.020 25.801 10.641 1.00 20.06 1DIK 933 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 935 ATOM 844 C VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 935 ATOM 845 O VAL 114 -10.108 26.692 9.003 1.00 20.73 1DIK 936 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 20.073 1DIK 936 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 20.08 1DIK 938 ATOM 849 N ASN 115 -10.371 29.255 10.332 1.00 19.62 1DIK 938 ATOM 849 N ASN 115 -10.245 28.115 10.322 1.00 19.62 1DIK 943 ATOM 850 CA ASN 115 -0.0371 29.255 10.331 1.00 19.62 1DIK 943 ATOM 851 C ASN 115 -0.084 30.494 10.776 1.00 19.96 1DIK 943 ATOM 855 ODI ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 943 ATOM 856 ND2 ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 943 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947									
ATOM 832 OE1 GLU 112 -13.712 29.691 18.878 1.00 19.03 1DIK 924 ATOM 833 OE2 GLU 112 -12.636 31.576 18.611 1.00 19.03 1DIK 925 ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 925 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 18.95 1DIK 927 ATOM 836 C LEU 113 -11.213 25.803 13.908 1.00 19.66 1DIK 927 ATOM 837 O LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 928 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.09 1DIK 929 ATOM 839 CG LEU 113 -11.592 24.471 14.559 1.00 19.94 1DIK 930 ATOM 840 CD1 LEU 113 -9.550 21.910 15.842 1.00 17.82 1DIK 931 ATOM 841 CD2 LEU 113 -11.190 25.552 16.819 1.00 15.58 1DIK 932 ATOM 842 N VAL 114 -12.104 25.840 11.641 1.00 20.06 1DIK 933 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 933 ATOM 844 C VAL 114 -10.108 26.692 9.003 1.00 20.73 1DIK 937 ATOM 845 O VAL 114 -10.108 26.692 9.003 1.00 20.73 1DIK 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 1DIK 940 ATOM 850 CA ASN 115 -0.0371 29.255 10.031 1.00 19.27 1DIK 943 ATOM 851 C ASN 115 -0.0844 30.494 10.776 1.00 19.95 1DIK 943 ATOM 852 O ASN 115 -10.844 30.494 10.776 1.00 19.95 1DIK 944 ATOM 855 ODI ASN 115 -10.844 30.494 10.776 1.00 19.95 1DIK 947 ATOM 856 ND2 ASN 115 -10.644 30.694 10.775 1.00 22.64 1DIK 947 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947									1DIK 922
ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 19.54 1DIK 925 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 18.95 1DIK 927 ATOM 836 C LEU 113 -11.213 25.803 13.908 1.00 18.95 1DIK 927 ATOM 837 O LEU 113 -11.023 25.666 12.398 1.00 19.66 1DIK 928 ATOM 838 CB LEU 113 -11.023 25.666 12.398 1.00 19.99 1DIK 929 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.09 1DIK 929 ATOM 839 CG LEU 113 -11.016 24.283 15.966 1.00 19.94 1DIK 930 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 932 ATOM 841 CD2 LEU 113 -11.190 25.552 16.819 1.00 15.58 1DIK 933 ATOM 841 CD2 LEU 113 -11.190 25.552 16.819 1.00 15.58 1DIK 933 ATOM 842 N VAL 114 -12.040 25.840 11.641 1.00 20.06 1DIK 934 ATOM 843 CA VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 935 ATOM 844 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 935 ATOM 845 O VAL 114 -10.108 26.692 9.003 1.00 20.73 1DIK 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 849 N ASN 115 -10.371 29.255 10.332 1.00 19.62 1DIK 943 ATOM 850 CA ASN 115 -10.371 29.255 10.331 1.00 19.27 1DIK 943 ATOM 851 C ASN 115 -10.371 29.255 10.331 1.00 19.27 1DIK 943 ATOM 852 O ASN 115 -7.993 29.371 9.673 1.00 19.85 1DIK 943 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 943 ATOM 854 CG ASN 115 -12.094 31.109 10.775 1.00 21.18 1DIK 944 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947					-13.276				
ATOM 834 N LEU 113 -12.177 26.841 14.262 1.00 15.87 1DIK 926 ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 18.95 1DIK 927 ATOM 836 C LEU 113 -11.223 25.866 12.398 1.00 19.66 1DIK 928 ATOM 837 O LEU 113 -9.907 25.411 11.929 1.00 19.09 1DIK 929 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.04 1DIK 930 ATOM 839 CG LEU 113 -11.016 24.283 15.966 1.00 19.61 1DIK 931 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 932 ATOM 841 CD2 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 932 ATOM 842 N VAL 114 -12.104 25.552 16.819 1.00 15.58 1DIK 933 ATOM 842 N VAL 114 -12.104 25.840 11.641 1.00 20.06 1DIK 934 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 935 ATOM 845 C VAL 114 -11.019 26.916 9.779 1.00 19.73 1DIK 935 ATOM 845 C VAL 114 -11.019 26.6916 9.779 1.00 19.73 1DIK 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.246 26.333 8.048 1.00 11.01 1DIK 939 ATOM 849 N ASN 115 -10.324 26.833 8.048 1.00 11.01 1DIK 939 ATOM 849 N ASN 115 -10.371 29.255 10.331 1.00 19.27 1DIK 942 ATOM 850 CA ASN 115 -10.371 29.255 10.331 1.00 19.27 1DIK 942 ATOM 850 CA ASN 115 -10.371 29.255 10.331 1.00 19.27 1DIK 942 ATOM 851 C ASN 115 -10.371 29.255 10.398 1.00 20.48 1DIK 943 ATOM 852 C ASN 115 -10.844 30.494 10.776 1.00 19.85 1DIK 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 943 ATOM 855 CD ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 943 ATOM 855 CD ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 943 ATOM 855 CD ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948									
ATOM 835 CA LEU 113 -11.213 25.803 13.908 1.00 18.95 1DIK 927 ATOM 836 C LEU 113 -11.023 25.806 12.398 1.00 19.66 1DIK 928 ATOM 837 O LEU 113 -9.907 25.411 11.929 1.00 19.09 1DIK 928 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.94 1DIK 930 ATOM 839 CG LEU 113 -11.016 24.283 15.966 1.00 19.61 1DIK 931 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 932 ATOM 841 CD2 LEU 113 -11.90 25.552 16.819 1.00 15.58 1DIK 933 ATOM 842 N VAL 114 -12.020 25.840 11.641 1.00 20.06 1DIK 933 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 935 ATOM 844 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 935 ATOM 845 O VAL 114 -10.108 26.692 9.003 1.00 20.73 1DIK 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 11.01 1DIK 939 ATOM 848 CG2 VAL 114 -13.741 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.741 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.741 26.071 9.526 1.00 21.09 1DIK 938 ATOM 849 N ASN 115 -10.371 29.255 10.332 1.00 19.62 1DIK 940 ATOM 850 CA ASN 115 -10.371 29.255 10.331 1.00 19.62 1DIK 943 ATOM 851 C ASN 115 -0.0844 30.494 10.776 1.00 19.85 1DIK 943 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 943 ATOM 854 CG ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 943 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947									
ATOM 836 C LEU 113 -11.023 25.666 12.398 1.00 19.66 101K 928 ATOM 837 O LEU 113 -1.592 24.471 14.559 1.00 19.09 1D1K 929 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.94 1D1K 930 ATOM 839 CG LEU 113 -11.016 24.283 15.966 1.00 19.61 1D1K 931 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1D1K 932 ATOM 841 CD2 LEU 113 -11.190 25.552 16.819 1.00 15.58 1D1K 933 ATOM 842 N VAL 114 -12.104 25.840 11.641 1.00 20.06 1D1K 933 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1D1K 933 ATOM 844 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1D1K 935 ATOM 845 O VAL 114 -11.039 26.916 9.779 1.00 19.73 1D1K 935 ATOM 845 CB VAL 114 -10.108 26.692 9.003 1.00 20.73 1D1K 935 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1D1K 938 ATOM 847 CG1 VAL 114 -13.246 26.333 8.048 1.00 11.01 1D1K 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1D1K 938 ATOM 849 N ASN 115 -13.246 26.333 8.048 1.00 11.01 1D1K 939 ATOM 849 N ASN 115 -10.301 1.031 1.00 19.62 1D1K 941 ATOM 850 CA ASN 115 -10.371 29.255 10.331 1.00 19.27 1D1K 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 1D1K 943 ATOM 852 O ASN 115 -7.993 29.371 9.673 1.00 19.85 1D1K 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.85 1D1K 944 ATOM 855 CD1 ASN 115 -12.094 31.109 10.775 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.694 31.09 10.775 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D1K 947 ATOM 855 CD1 ASN 115 -12.516 32.227 10.733 1.00 19.58 1D1K 948					-11 713				
ATOM 837 O LEU 113 -9.907 25.411 11.929 1.00 19.09 10 1K 929 ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.04 1D 1K 930 ATOM 840 CD1 LEU 113 -11.016 24.283 15.966 1.00 19.61 1D 1K 931 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 10 1K 932 ATOM 841 CD2 LEU 113 -9.550 23.910 15.842 1.00 17.82 10 1K 932 ATOM 842 N VAL 114 -12.104 25.840 11.641 1.00 20.06 1D 1K 933 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1D 1K 935 ATOM 844 C VAL 114 -12.020 25.801 10.183 1.00 18.34 1D 1K 935 ATOM 845 O VAL 114 -10.108 26.916 9.779 1.00 19.73 1D 1K 936 ATOM 845 C VAL 114 -13.411 26.071 9.526 1.00 21.09 1D 1K 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1D 1K 938 ATOM 847 CG1 VAL 114 -13.246 26.333 8.048 1.00 11.01 1D 1K 939 ATOM 848 CG2 VAL 114 -13.246 26.333 8.048 1.00 11.01 1D 1K 939 ATOM 849 N ASN 115 -10.371 29.255 10.031 1.00 19.27 1D 1K 940 ATOM 850 CA ASN 115 -10.371 29.255 10.331 1.00 19.27 1D 1K 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 1D 1K 943 ATOM 852 O ASN 115 -7.991 29.371 9.673 1.00 19.85 1D 1K 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1D 1K 943 ATOM 854 CG ASN 115 -10.844 30.494 10.776 1.00 19.96 1D 1K 944 ATOM 855 OD1 ASN 115 -10.844 30.494 10.776 1.00 19.96 1D 1K 944 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D 1K 947 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D 1K 947 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D 1K 947									
ATOM 838 CB LEU 113 -11.592 24.471 14.559 1.00 19.94 1DIK 930 ATOM 839 CG LEU 113 -11.016 24.283 15.966 1.00 19.61 1DIK 931 ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 932 ATOM 841 CD2 LEU 113 -11.190 25.552 16.819 1.00 15.58 1DIK 933 ATOM 842 N VAL 114 -12.020 25.840 11.641 1.00 20.06 1DIK 933 ATOM 843 CA VAL 114 -12.020 25.840 11.641 1.00 20.06 1DIK 935 ATOM 844 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 935 ATOM 845 O VAL 114 -10.108 26.92 9.003 1.00 20.73 1DIK 935 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -14.361 24.877 9.747 1.00 14.20 1DIK 938 ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 1DIK 940 ATOM 850 CA ASN 115 -10.371 29.255 10.331 1.00 19.62 1DIK 941 ATOM 850 CA ASN 115 -0.371 29.255 10.331 1.00 19.62 1DIK 943 ATOM 851 C ASN 115 -0.371 29.255 10.311 1.00 19.85 1DIK 943 ATOM 853 CB ASN 115 -0.0844 30.494 10.776 1.00 19.85 1DIK 943 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.85 1DIK 944 ATOM 855 ODI ASN 115 -12.094 31.109 10.775 1.00 22.64 1DIK 944 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856					-9.907		11.929		
ATOM 840 CD1 LEU 113 -9.550 23.910 15.842 1.00 17.82 1DIK 932 ATOM 841 CD2 LEU 113 -11.190 25.552 16.819 1.00 17.82 1DIK 932 ATOM 842 N VAL 114 -12.104 25.840 11.641 1.00 20.06 1DIK 933 ATOM 843 CA VAL 114 -12.020 25.840 11.641 1.00 20.06 1DIK 933 ATOM 844 C VAL 114 -12.020 25.840 11.641 1.00 18.34 1DIK 935 ATOM 845 O VAL 114 -10.108 26.6916 9.779 1.00 19.73 1DIK 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 937 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -14.361 24.877 9.747 1.00 14.20 1DIK 940 ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 1DIK 940 ATOM 850 CA ASN 115 -10.371 29.255 10.031 1.00 19.27 1DIK 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 1DIK 943 ATOM 852 O ASN 115 -7.991 29.371 9.673 1.00 19.85 1DIK 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 944 ATOM 854 CG ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 944 ATOM 855 ODI ASN 115 -12.094 31.109 10.775 1.00 21.18 1DIK 944 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 855 ODI ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948							14.559		
ATOM 841 CD2 LEU 113 -11.190 25.552 16.819 1.00 15.58 1DIK 933 ATOM 842 N VAL 114 -12.104 25.840 11.641 1.00 20.06 1DIX 934 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIX 935 ATOM 844 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIX 936 ATOM 845 O VAL 114 -10.108 26.692 9.003 1.00 20.73 1DIX 936 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIX 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIX 938 ATOM 848 CG2 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIX 938 ATOM 848 CG2 VAL 114 -13.246 26.333 8.048 1.00 11.01 1DIX 939 ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 1DIX 940 ATOM 850 CA ASN 115 -11.245 28.115 10.322 1.00 19.62 1DIX 941 ATOM 850 CA ASN 115 -10.371 29.255 10.031 1.00 19.27 1DIX 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 1DIX 943 ATOM 852 O ASN 115 -7.993 29.371 9.673 1.00 19.85 1DIX 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.85 1DIX 944 ATOM 854 CG ASN 115 -10.844 30.494 10.776 1.00 19.85 1DIX 944 ATOM 855 ODI ASN 115 -12.094 31.109 10.175 1.00 21.18 1DIX 946 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIX 947 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIX 947 ATOM 855 ODI ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIX 948								1.00 19.61	
ATOM 842 N VAL 114 -12.104 25.840 11.641 1.00 20.06 1DIX 934 ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIX 935 ATOM 844 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIX 936 ATOM 845 O VAL 114 -10.108 26.692 9.003 1.00 20.73 1DIX 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIX 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIX 938 ATOM 848 CG2 VAL 114 -13.412 26.692 9.003 1.00 11.01 1DIX 938 ATOM 849 N ASN 115 -10.3246 26.333 8.048 1.00 11.01 1DIX 939 ATOM 849 N ASN 115 -10.371 29.255 10.31 1.00 19.62 1DIX 940 ATOM 850 CA ASN 115 -10.371 29.255 10.031 1.00 19.27 1DIX 942 ATOM 851 C ASN 115 -0.371 29.255 10.031 1.00 19.27 1DIX 942 ATOM 851 C ASN 115 -7.993 29.371 9.673 1.00 19.85 1DIX 943 ATOM 852 O ASN 115 -0.0371 29.255 10.398 1.00 20.48 1DIX 943 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.85 1DIX 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIX 945 ATOM 854 CG ASN 115 -12.094 31.109 10.775 1.00 21.18 1DIX 946 ATOM 855 ODI ASN 115 -12.094 31.109 10.175 1.00 21.18 1DIX 946 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIX 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIX 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIX 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIX 947									
ATOM 843 CA VAL 114 -12.020 25.801 10.183 1.00 18.34 1DIK 935 ATOM 844 C VAL 114 -11.039 26.916 9.779 1.00 19.73 1DIK 935 ATOM 845 O VAL 114 -10.108 26.692 9.003 1.00 20.73 1DIK 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 848 CG2 VAL 114 -13.246 26.333 8.048 1.00 11.01 1DIK 939 ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 1DIK 940 ATOM 850 CA ASN 115 -11.245 28.115 10.322 1.00 19.62 1DIK 941 ATOM 851 C ASN 115 -0.371 29.255 10.031 1.00 19.27 1DIK 942 ATOM 851 C ASN 115 -7.991 29.371 9.673 1.00 19.85 1DIK 943 ATOM 852 O ASN 115 -7.991 29.371 9.673 1.00 19.85 1DIK 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.85 1DIK 944 ATOM 854 CG ASN 115 -12.094 31.109 10.175 1.00 21.18 1DIK 944 ATOM 855 OD1 ASN 115 -12.094 31.109 10.175 1.00 22.64 1DIK 944 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 855 OD1 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 947				113				1.00 15.58	
ATOM 844 C VAL 114 -11.039 26.916 9.779 1.00 19.73 101K 936 ATOM 845 0 VAL 114 -10.108 26.692 9.003 1.00 20.73 101K 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 101K 937 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 101K 938 ATOM 848 CG2 VAL 114 -14.361 24.877 9.747 1.00 14.20 101K 940 ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 101K 941 ATOM 850 CA ASN 115 -10.371 29.255 10.031 1.00 19.27 101K 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 101K 943 ATOM 852 O ASN 115 -7.993 29.371 9.673 1.00 19.85 101K 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.85 101K 944 ATOM 854 CG ASN 115 -10.844 30.494 10.776 1.00 19.96 101K 945 ATOM 855 OD1 ASN 115 -12.094 31.109 10.175 1.00 21.18 101K 946 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 101K 947 ATOM 855 OD1 ASN 115 -12.516 32.227 10.733 1.00 19.58 101K 947 ATOM 855 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 101K 947 ATOM 855 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 101K 947 ATOM 855 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 101K 947 ATOM 855 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 101K 947 ATOM 855 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 101K 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 101K 948						25.840	11.041	1.00 20.06	אנם אוטו דחוע אוטי
ATOM 845 O VAL 114 -10.108 26.692 9.003 1.00 20.73 101K 937 ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 101K 938 ATOM 847 CG1 VAL 114 -13.411 26.071 9.526 1.00 21.09 101K 938 ATOM 848 CG2 VAL 114 -14.361 24.877 9.747 1.00 14.20 101K 940 ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 101K 941 ATOM 850 CA ASN 115 -10.371 29.255 10.031 1.00 19.27 101K 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 101K 943 ATOM 852 O ASN 115 -7.993 29.371 9.673 1.00 19.85 101K 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 101K 945 ATOM 854 CG ASN 115 -10.844 30.494 10.776 1.00 19.96 101K 945 ATOM 855 OD1 ASN 115 -12.094 31.109 10.175 1.00 21.18 101K 945 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 101K 947 ATOM 855 OD1 ASN 115 -12.516 32.227 10.733 1.00 19.58 101K 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 101K 947							9.774	1.00 19.73	1DIK GIK
ATOM 846 CB VAL 114 -13.411 26.071 9.526 1.00 21.09 1DIK 938 ATOM 847 CG1 VAL 114 -13.216 26.333 8.048 1.00 11.01 1DIK 938 ATOM 848 CG2 VAL 114 -14.361 24.877 9.747 1.00 14.20 1DIK 940 ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 1DIK 941 ATOM 850 CA ASN 115 -10.371 29.255 10.332 1.00 19.27 1DIK 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 1DIK 943 ATOM 852 O ASN 115 -7.993 29.371 9.673 1.00 19.85 1DIK 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.85 1DIK 944 ATOM 854 CG ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 945 ATOM 855 ODI ASN 115 -12.094 31.109 10.175 1.00 21.18 1DIK 946 ATOM 855 ODI ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 947	ATOM							1.00 20.73	1DIK 937
ATOM 847 CG1 VAL 114 -13.246 26.333 8.048 1.00 11.01 101K 939 ATOM 848 CG2 VAL 114 -14.361 24.877 9.747 1.00 14.20 1D1K 940 ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 1D1K 941 ATOM 850 CA ASN 115 -8.909 28.985 10.398 1.00 20.48 1D1K 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 1D1K 943 ATOM 852 O ASN 115 -7.991 29.371 9.673 1.00 19.85 1D1K 943 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1D1K 945 ATOM 854 CG ASN 115 -12.094 31.109 10.175 1.00 21.18 1D1K 945 ATOM 855 DD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1D1K 948 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1D1K 948	ATOM	846		. 114	-13.411				
ATOM 849 N ASN 115 -11.245 28.115 10.322 1.00 19.62 1DIK 941 ATOM 850 CA ASN 115 -10.371 29.255 10.031 1.00 19.27 101K 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 1DIK 943 ATOM 852 O ASN 115 -7.993 29.371 9.673 1.00 19.85 1DIK 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 945 ATOM 854 CG ASN 115 -12.094 31.109 10.175 1.00 21.18 1DIK 945 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 945 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948	ATOM			114	-13.246	26.333	8.048	1.00 11.01	1DIK 939
ATOM 850 CA ASN 115 -10.371 29.255 10.031 1.00 19.27 10IK 942 ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 10IK 943 ATOM 852 O ASN 115 -7.991 29.371 9.673 1.00 19.85 10IK 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 10IK 945 ATOM 854 CG ASN 115 -12.094 31.109 10.175 1.00 21.18 10IK 945 ATOM 855 OD1 ASN 115 -12.094 31.109 10.175 1.00 21.18 10IK 946 ATOM 855 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 10IK 947									1DIK 940
ATOM 851 C ASN 115 -8.909 28.985 10.398 1.00 20.48 1DIK 943 ATOM 852 O ASN 115 -7.991 29.371 9.673 1.00 19.85 1DIK 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 945 ATOM 854 CG ASN 115 -12.094 31.109 10.175 1.00 21.18 1DIK 946 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948								1.00 19.62	
ATOM 852 O ASN 115 -7.993 29.371 9.673 1.00 19.85 1DIK 944 ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.86 1DIK 945 ATOM 854 CG ASN 115 -12.094 31.109 10.175 1.00 21.18 1DIK 946 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948									
ATOM 853 CB ASN 115 -10.844 30.494 10.776 1.00 19.96 1DIK 945 ATOM 854 CG ASN 115 -12.094 31.109 10.175 1.00 21.18 1DIK 946 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948				115		∠8.985 20.22°			101K 943
ATOM 854 CG ASN 115 -12.094 31.109 10.175 1.00 21.18 1DIK 946 ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 1DIK 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948				115					
ATOM 855 OD1 ASN 115 -12.671 30.593 9.226 1.00 22.64 101K 947 ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1D1K 948				115					
ATOM 856 ND2 ASN 115 -12.516 32.227 10.733 1.00 19.58 1DIK 948									
	MOTA	856	ND2 ASN	115	-12.516	32.227			
	MOTA	857	N SER	116	-8.699	28.327			

							•		
MOTA	858	CA	SER	116	-7.358	27.966	12.004	1.00 20.45	1DIK 950
MOTA	859	č	SER	116	-6.696	26.987	11.000	1.00 20.54	1DIK 951
ATOM	860	ō	SER	116	-5.489	27.078	10.725	1.00 19.21	1DIK 952
ATOM	861		SER	116	-7.465	27.330	13.407	1.00 20.16	1DIK 953
ATOM	862		SER	116	-6.199	27.086	13.987	1.00 15.09	1DIK 954
ATOM	863	N	GLY	117	-7.484	26.059	10.458	1.00 17.37	1DIK 955
ATOM	864		GLY	117	-6.963	25.112	9.485	1.00 18.31	1DIK 956
ATOM	B 6 5		GLY	117	-6.507	25.807	8.209	1.00 19.33	1DIK 957
MOTA	866		GLY	117	-5.468	25.455	7.647	1.00 22.20	1DIK 958
ATOM	867	N	ILE	118	-7.294	26.784	7.759	1.00 18.87	1DIK 959
ATOM	868	CA	ILE	118	-6.998	27.585	6.567	1.00 19:05	1DIK 960
MOTA	869	С	ILE	118	-5.690	28.347	6.739	1.00 19.38	1DIK 961
MOTA	870	0	ILE	118	-4.831	28.365	5.848	1.00 20.03	1DIK 962
ATOM	871	CB	ILE	118	-8.105	28.640	6.316	1.00 18.22	1DIK 963
MOTA	872	CG1	ILE	118	-9.392	27.959	5.860	1.00 16.45	1DIK 964
MOTA	873.		ILE	118	-7.627	29.688	5.310	1.00 13.65	1DIK 965
MOTA	874	CDI		118	-10.549	28.901	5.792	1.00 12.46	1DIK 966
MOTA	875	И	LYS	119	-5.555	28.979	7.900	1.00 21.72	1DIX 967
MOTA	876	CA	LYS	119	-4.381	29.775	8.225	1.00 21.99	1DIK 968
MOTA	877	C	LYS	119	-3.095	28.955	8.340	1.00 22.12	1DIK 969
MOTA	878	0	LYS	119	-2.034	29.404	7.881	1.00 22.21	1DIK 970
ATOM	,879	СВ	LYS	119	-4.636	30.574	9.503	1.00 22.43	1DIK 971
ATOM	880	CG	LYS	119	-3.536	31.557	9.789	1.00 27.62	1DIK 972
MOTA	881	CD	LYS	119	-4.020	32.690	10.649	1.00 29.86	1DIK 973
MOTA	882	CE	LYS	119	-2.986	33.798	10.646	1.00 29.14	1DIK 974
ATOM	883	N2	LYS PHE	119 120	-3.311	34.827 27.765	11.667 8.942	1.00 30.24 1.00 19.44	1DIK 975 1DIK 976
MOTA	884 885	N CA	PHE	120	-3.191 -2.034		9.084	1.00 20.52	1DIK 977
MOTA MOTA	886	č	PHE	120	-1.561	26.879 26.429	7.694	1.00 22.99	1DIK 978
ATOM	887	ŏ	PHE	120	-0.355	26.404	7.415	1.00 21.56	1DIK 979
ATOM	888	CB	PHE	120	-2.381	25.647	9.927	1.00 18.62	1DIK 980
ATOM	889	ČĞ	PHE	120	-1.208	24.727	10.163	1.00 25.65	1DIK 981
ATOM	890	CD1		120	-0.192	25.083	11.059	1.00 23.32	1DIK 982
MOTA	891	CD2		120	-1.114	23.504	9.493	1.00 25.43	1DIX 983
ATOM	892	CEI		120	0.894	24.243	11.284	1.00 18.73	1DIK 984
ATOM	893	CE2		120	-0.025	22.651	9.712	1.00 22.55	1DIK 985
MOTA	894	CZ	PHE	120	0.981	23.021	10.610	1.00 20.53	1DIK 986
MOTA	895	N	TYR	121	-2.515	26.074	6.830	1.00 20.17	1DIK 987
ATOM	896	CA	TYR	121	-2.179	25.656	5.482	1.00 19.95	1DIK 988
MOTA	897	C	TYR	121	-1.450	26.766	4.718	1.00 21.59	1DIK 989
ATOM	898	0	TYR	121	-0.402	26.528	4.112	1.00 19.41	1DIK 990
MOTA	899	CB	TYR	121	-3.427	25.271	4.668	1.00 19.72	1DIK 991
MOTA	900	CG	TYR	121	-3.029	24.865	3.265	1.00 20.01	1DIK 992
MOTA	901	CD1		121	-2.859	25.819	2.240	1.00 18.79	1DIK 993
ATOM .	902	CD2	TYR	121	-2.721	23.537	2.983	1.00 20.66	10IK 994
MOTA	903	CE1	TYR	121	-2.381	25.445	0.976	1.00 19.33	1DIK 995
MOTA	904	CE2	TYR	121	-2.246	23.152	1.730	1.00 23.50	1DIK 996
MOTA	905	CZ	TYR	121	-2.074	24.097	0.737	1.00 23.64	10IK 997 10IK 998
MOTA	906 907	OH N	TYR GLN	121 122	-1.593	23.670 27.969	-0.472 4.734	1.00 22.79 1.00 23.17	1DIK 999
ATOM ATOM	908	CA	GLN	122	-2.021	27.969	4.022	1.00 22.67	1DIK1000
ATOM	909	č	GLN	122	-1.447 -0.085	29.104 29.549	4.527	1.00 22.41	1DIK1001
ATOM	910	ŏ	GLN	122	0.799	29.860	3.735	1.00 25.99	1DIK1002
ATOM	911	čв	GLN	122	-2.387	30.296	4.071	1.00 26.42	1DIK1003
ATOM	912	CG	GLN	122	-3.691	30.133	3.323	1.00 27.92	1DIK1004
MOTA	913	CD	GLN	122	-4.623	31.333	3.531	1.00 34.41	1DIK1005
ATOM	914	OE1	GLN	122	-4.531	32.066	4.537	1.00 33.16	1DIK1006
ATOM	915	NEZ	GLN	122	-5.528	31.538	2.582	1.00 36.14	1DIK1007
ATOM	916	N	ARG	123	0.089	29.586	5.841	1.00 22.55	1DIK1008
ATOM	917	CA	ARG	123	1.359	30.011	6.416	1.00 21.19	1DIX1009
MOTA	918	С	ARG	123	2.541	29.106	6.012	1.00 23.05	1DIK1010
ATOM	919	0	ARG	123	3.652	29.582	5.785	1.00 23.96	1DIK1011
ATOM	920	CB	ARG	123	1.225	30.083	7.947	1.00 20.65	1DIK1012
ATOM	921	CG	ARG	123	2.485	30.519	8.653	1.00 19.56	1DIK1013
MOTA	922	CD	ARG	123	2.297	30.672	10.146	1.00 21.87	1DIX1014
ATOM	923	NE	ARG	123	3.580	30.973	10.789	1.00 24.63	1DIK1015
ATOM	924	CZ	ARG	123	4.173	32.174	10.802	1.00 28.06	1DIK1016
ATOM	925	NH1	ARG	123	3.605	33.236	10.232	1.00 18.64	10IK1017
MOTA	926	NH2	ARG	123	5.349	32.319	11.402	1.00 24.13	1DIK1018
MOTA	927	N CB	TYR	124	2.298	27.803	5.915 5.572	1.00 24.21	101K1019 101K1020
MOTA MOTA	928 929	CA	TYR TYR	124 124	3.346 3.125	26.852 26.182	4.222	1.00 24.48	1DIK1020
ATOM	930	Ö	TYR	124	3.125	25.016	4.049	1.00 24.40	1DIK1022
ATOM	930	СВ	TYR	124	3.444	25.790	6.679	1.00 22.35	1DIK1023
ATOM	932	CG	TYR	124	3.696	26.398	8.040	1.00 24.40	1DIK1024
ATOM	933	CD1		124	4.946	26.923	8.360	1.00 20.62	101K1025
ATOM	934	CDZ		124	2.677	26.484	8.998	1.00 25.42	1DIK1026
MOTA	935	CEI		124	5.186	27.515	9.579	1.00 20.04	10IK1027
ATOM	936	CE2		124	2.907	27.082	10.236	1.00 22.59	1DIK1028
ATOM	937	cz	TYR	124	4.176	27.600	10.521	1.00 22.79	101K1029
ATOM	938	ОН	TYR	124	4.450	28.205	11.737	1.00 16.28	1DIK1030
ATOM	939	N	GLU	125	2.548	26.921	3.273	1.00 27.83	1DIK1031
ATOM	940	CA	GLU	125	2.242	26.406	1.931	1.00 31.93	1DIK1032
ATOM	941	c	GLU		3.321	25.534	1.276	1.00 31.07	1DIK1033
MOTA	942	ō	GLU		3.008	24.504	0.680	1.00 31.87	1DIK1034

ATOM	943	CB ·	GLU	125	1.875	27.566	0.985	1.00 35.88	101K1035
ATOM	944		GLU	125	1.226	27.149	-0.360	1.00 46.46	1DIX1036
ATOM	945		GLU	125	2.239	26.814	-1.475	1.00 54.36	
ATOM	946	OE1		125	3.343			1.00 58.38	10IK1037
ATOM	947	OE2		125		27.412	-1.491		1DIK1038
ATOM	948		SER		1.937	25.955	-2.343		1DIK1039
				126	4.583	25.929	1.383	1.00 28.00	1DIK1040
MOTA	949		SER	126	5.651	25.161	0.755	1.00 31.00	1DIK1041
MOTA	950		SER	126	5.733	23.711	1.249	1.00 31.74	1DIX1042
MOTA	951		SER	126	6.217	22.831	0.525	1.00 32.26	1DIX1043
ATOM	952		5ER	126	6.992	25.881	0.936	1.00 33.57	1DIK1044
ATOM	953		SER	126	7.256	26.134	2.308	1.00 41.28	1DIX1045
ATOM	954		LEU	127	5.262	23.476	2.477	1.00 28.17	1DIX1046
ATOM	955	CA	LEU	127	5.246	22.148	3.087	1.00 23.13	1DIK1047
ATOM	956	C	LEU	127	3.879	21.466	2.981	1.00 22.92	1DIX1048
ATOM	957	0	LEU	127	3.781	20.304	2.584	1.00 24.92	1DIK1049
ATOM	958	CB	LEU	127	5.601	22.236	4.569	1.00 21.37	1DIK1050
ATOM	959	CG	LEU	127	7.017	22.618	4.969	1.00 24.27	1DIK1051
MOTA	960	CD1	LEU	127	7.125	22.582	6.485	1.00 17.41	10IK1052
MOTA	961	CD2	LEU	127	8.006	21.652	4.316	1.00 20.13	1DIK1053
ATOM	962	N	THR	128	2.833	22 198	3.352	1 00 22 22	1DIX1054
ATOM	963		THR	128	1.461	22.198 21.701	3.357	1.00 22.22 1.00 21.36	
ATOM	964		THR	128	0.935	21.259	1.989	1.00 21.30	1DIK1055
ATOM	965		THR	128	0.016		1.907	1.00 25.64	1DIK1056
MOTA	966		THR	128	0.502	20.429		1.00 26.78	1DIK1057
ATOM	967	OG1				22.765	3.941	1.00 18.91	1DIK1058
MOTA	968	CG2		128	0.687	24.008	3.248	1.00 16.25	1DIK1059
				128	0.771	22.971	5.413	1.00 8.45	1DIK1060
MOTA	969		ARG	129	1.510	21.803	0.917	1.00 27.58	1DIK1061
MOTA	970		ARG	129	1.070	21.436	-0.423	1.00 27.49	101X1062
MOTA	971		ARG	129	1.303	19.975	-0.790	1.00 24.39	1DIK1063
MOTA	972		ARG	129	0.612	19.448	-1.652	1.00 25.81	1DIK1064
MOTA	973		ARG	129	1.673	22.351	-1.484	1.00 28.84	1DIK1065
ATOM	974		ARG	129	3.139	22.218	-1.685	1.00 31.94	1DIK1066
MOTA	975		ARG	129	3.536	23.072	-2.860	1.00 46.51	1DIK1067
MOTA	976		ARG	129	4.899	22.774	-3.270	1.00 59.18	1DIK1068
ATOM	977	CZ	ARG	129	5.879	23.669	-3.295	1.00 67.18	1DIK1069
MOTA	978	NHl	ARG	129	5.643	24.936	-2.948	1.00 66.97	1DIK1070
ATCM	979	NH2	ARG	129	7.098	23.294	-3.672	1.00 69.63	1DIK1071
MOTA	980	N	ASN	130	2.266	19.306	-0.166	1.00 26.81	1DIK1072
MOTA	981	CA	ASN	130	2.456	17.883	-0.470	1.00 29.49	1DIK1073
ATOM	982	C	ASN	130	2.819	16.977	0.691	1.00 25.25	1DIK1074
ATOM	983		ASN	130	3.369	15.904	0.489	1.00 22.37	1DIK1075
ATOM	984		ASN	130	3.407	17.643	-1.657	1.00 33.67	1DIK1076
MOTA	985		ASN	130	4.679	18.415	-1.550	1.00 35.85	1DIK1077
MOTA	986	OD1		130	5.242	18.561	-0.472	1.00 41.17	1DIK1078
ATOM	997	ND2		130	5.148	18.926	-2.678	1.00 36.92	101X1079
ATOM	988	N	ILE	131	2.499	17.409	1.905	1.00 23.74	101K1080
ATOM	989	CA	ILE	131	2.729	16.600	3.087	1.00 22.76	101K1081
MOTA	990	č	ILE	131				1.00 22.22	
MOTA	991		ILE	131	1.405 0.706	16.555	3.857		1DIK1082
ATOM	992		ILE	131		17.568	3.994	1.00 20.81 1.00 25.01	1DIK1083
	993	CG 1		131	3.864	17.171	3.974		1DIX1084
ATOM					5.196	17.051	3.237	1.00 22.26	1DTK1085
MOTA	994		ILE	131	3.966	16.383	5.296	1.00 25.81	1DIK1086
MOTA	995		ILE	131	6.264	18.012	3.705	1.00 19.55	1DIK1087
MOTA	996	N	VAL	132	1.052	15.368	4.336	1.00 21.56	1DIK1088
ATOM	997		VAL	132	-0.173	15.184	5.113	1.00 21.17	1DIK1089
MOTA	998	c	VAL	132	0.285	15.221	6.575	1.00 20.81	1DIK1090
ATOM	999	0	VAL	132	1.137	14.422	6.979	1.00 20.82	1DIK1091
ATOM	1000		VAL	132	-0.841	13.807	4.803	1.00 18.52	1DIK1092
MOTA	1001		VAL	132	2.123	13.651	5.597	1.00 14.56	101K1093
ATOM	1002		VAL	132	-1.126	13.686	3.320	1.00 13.43	10IK1094
ATOM	1003		PRO	133	-0.260	16.151	7.383	1.00 20.75	1DIK1095
MOTA	1004		PRO	133	0.116	16.273	8.798	1.00 17.17	1DIK1096
MOTA	1005		PRO	133	-0.288	15.036	9.585	1.00 20.37	1DIK1097
HOTA	1006		PRO	133	-1.268	14.364	9.229	1.00 19.54	1DIK1098
MOTA	1007		PRO	133	-0.684	17.488	9.277	1.00 17.52	1DIK1099
MOTA	1008		PRO	133	-1.029	18.231	B.029	1.00 19.74	1DIK1100
ATOM	1009		PRO	133	-1.278	17.151	7.020	1.00 21.29	1DIK1101
MOTA	1010	N	PHE	134	0.467	14.721	10.641	1.00 20.95	1DIK1102
MOTA	1011	CA	PHE	134	0.131	13.596	11.514	1.00 18.61	1DIK1103
MOTA	1012	C	PHE	134	-0.583	14.285	12.677	1.00 17.69	1DIK1104
ATOM	1013	0	PHE	134	-0.016	15.175	12.677	1.00 17.69 1.00 17.93	19IK1105
MOTA	1014	СВ	PHE	134	1.368	12.847	12.003	1.00 17.50	1DIK1106
MOTA	1015	CG	PHE	134	1.040	11.715	12.941	1.00 17.28	1DIK1107
MOTA	1016	CD1		134	0.616	10.478	12.443	1.00 11.84	1DIK1108
ATOM	1017	CDZ		134	1.133	11.888	14.324	1.00 13.50	1DIK1109
ATOM	1018	CE1		134	0.285	9.423	13.310	1.00 11.64	1DIK1110
MOTA	1019	CE 2		134	0.804	10.837	15.203	1.00 12.13	101K1111
ATOM	1020	cz	PHE	134	0.379	9.607	14.693	1.00 15.07	1DIK1112
MOTA	1021	N	ILE	135	-1.816	13.863	12.949	1.00 15.82	1DIK1113
HOTA	1022	CA	ILE	135			13.953	1.00 13.71	1DIX1114
ATOM	1023	c	ILE	135	-2.670 -3.088	14.495	15.156		
MOTA	1024	ŏ	ILE			13.019		1.00 14.35	101K1115
MOTA	1025	СВ		135	-3.425	12.461	15.015		101K1116
			ILE	135	-3.952	15.018 15.994	13.243	1.00 11.04	101K1117
ATOM	1026	CG1		135	-3.568	15.994	12.134	1.00 9.94	1DIK1118
ATOM	. 1027	CG2	ظنابا	135	-4.906	15.690	14.222	1.00 15.43	1DIK1119

ATOM	1028	CD1	ILE	135	-4.731	16.360	11.245	1.00 11.33	1D1K1120
ATOM	1029	N	ARG	136	-3.074	14.259	16.335	1.00 13.24	1D1K1121
ATOM	1030	CA	ARG	136	-3.480	13.593	17.571	1.00 15.19	1DIK1122
MOTA	1031	C	ARG	136	-4.451	14.511	18.296	1.00 16.07	1DIK1123
MOTA	1032	0	ARG	136	-4.355	15.734	18.190	1.00 16.44	1DIK1124
MOTA	1033	CB	ARG	136	-2.289	13.322	18.487	1.00 13.97	101K1125
MOTA	1034	CG	ARG	136	-1.203	12.434	17.905	1.00 12.99	1DIK1126
MOTA	1035	CD	ARG	136	-0.176	12.079	18.973	1.00 14.14	1DIK1127
MOTA	1036	NE	ARG	136	0.441	13.277	19.540	1.00 22.30	1DIK1128
MOTA	1037	CZ	ARG	136	1.335	13.288	20.525	1.00 20.79	1DIX1129
MOTA	1038	NH1	ARG	136	1.743	12.150	21.081	1.00 17.01	101K1130
ATOM	1039	NH2	ARG	136	1.819	14.450	20.951	1.00 17.84	1DIK1131
ATOM	1040	N	SER	137	-5.378	13.918	19.035	1.00 16.59	1DIK1132
MOTA	1041	CA	SER	137	-6.381		19.789	1.00 14.27	1DIK1133
MOTA	1042	С	SER	137	-6.624	13.982	21.147	1.00 17.11	1DIK1134
ATOM	1043	0	SER	137	-6.549	12.754	21.272	1.00 16.51	1DIX1135
MOTA	1044	СВ	SER	137	-7.682	14.703	18.966	1.00 13.24	1DIK1136
MOTA	1045	OG	SER	137	-8.804	15.178	19.690	1.00 13.55	1DIK1137
ATON	1046	N	SER	138	-6.898	14.782	22.169	1.00 18.79	1DIK1138
ATON	1047	CA	SER	138	-7.212	14.246	23.486	1.00 18.47	1DIK1139
MOTA	1048	C	SER	138	-8.651	13.714	23.338	1.00 20.67	1DIK1140
MOTA	1049 1050	0	SER	138 138	-9.436	14.261	22.557	1.00 21.12	1DIK1141
MOTA	1051	CB OG	SER	138	-7.123 -7.161	15.360	24.526 25.831	1.00 19.25	1DIK1142
ATOM ATOM	1052	N	GLY	139	-9.005	14.832	24.070	1.00 19.54 1.00 24.07	1DIK1143 1DIK1144
MOTA	1053	CA	GLY	139	-10.326		23.923	1.00 23.86	101K1145
MOTA	1054	č	GLY	139	-11.511	12.064 12.774	24.550	1.00 26.14	1DIK1146
MOTA	1055	ŏ	GLY	139	-12.114	12.261	25.491	1.00 33.68	1DIK1147
MOTA	1056	N	SER	140	-11.853	13.946	24.046	1.00 23.95	101K1148
ATOM	1057	CA	SER	140	-12.976	14.715	24.553	1.00 18.34	1DIX1149
ATOM	1058	c	SER	140	-13.709	15.148	23.296	1.00 21.76	10IK1150
ATOM	1059	0	SER	140	-13.084	15.655	22.356	1.00 22.25	1DIK1151
MOTA	1060	CB	SER	140	-12.479	15.925	25.319	1.00 17.99	1DIK1152
MOTA	1061	QG	SER	140	-13.543	16.819	25.617	1.00 22.47	1DIK1153
ATOM	1062	N	SER	141	-15.024	14.959	23.274	1.00 19.07	1DIK1154
MOTA	1063	CA	SER	141	-15.825	15.278	22.097	1.00 21.60	1DIK1155
MOTA	1064	С	SER	141	-15.592	16.644	21.496	1.00 22.01	1D1K1156
ATOM	1065	0	SER	141	-15.468	16.764	20.275	1.00 23.16	101K1157
MOTA	1066	CB	SER	141	-17.303	15.111	22.399	1.00 23.43	1DIX1158
ATOM	1067	OG	SER	141	-17.480	14.054	23.319	1.00 40.45	1DIK1159
MOTA	1068	N	ARG	142	-15.526	17.675	22.335	1.00 19.81	1DIK1160
MOTA	1069	CA	ARG	142	-15.325	19.010	21.809	1.00 18.48	1DIK1161
MOTA	1070	ç	ARG	142	-13.951	19.187	21.180	1.00 18.52	1DIK1162
ATOM	1071 1072	CB	ARG	142 142	-13.779	19.999	20.264	1.00 17.81	1DIK1163
ATOM	1073	CG	ARG	142	-15.580 -14.661	20.072	22.885	1.00 17.69	1DIX1164
atom atom	1074	CD	ARG	142		20.050	24.069	1.00 23.72	1DIK1165 1DIK1166
ATOM	1075	NE	ARG	142	-14.952 -14.441	21.269 21.157	24.913 26.280	1.00 27.97	101K1167
ATOM	1076	cz	ARG	142	-15.100	20.586	27.292	1.00 28.86	1DIK1168
ATOM	1077	NHI	ARG	142	-16.301	20.053	27.106	1.00 28.91	10IK1169
ATOM	1078	NH2	ARG	142	-14.552	20.543	28.499	1.00 29.64	1DIK1170
ATOM	1079	N	VAL	143	-12.973	18.424	21.662	1.00 18.71	1DIK1171
MOTA	1080	CA	VAL	143	-11.620	18.516	21.137	1.00 16.09	10IK1172
MOTA	1081	С	VAL	143	-11.561	17.777	19.799	1.00 19.00	1DIK1173
MOTA	1082	0	VAL	143	-11.031	18.303	18.802	1.00 19.96	1DIK1174
MOTA	1083	CB	VAL	143	-10.604	17.962	22.152	1.00 14.17	1DIK1175
MOTA	1084	CG1	VAL	143	-9.179	18.106	21.630	1.00 13.33	1DIK1176
ATOM	1085	CG2	VAL	143	-10.746	18.717	23.450	1.00 11.92	1DIK1177
MOTA	1086	N	ILE	144	-12.132	16.576	19.778	1.00 17.56	1DIK1178
MOTA	1087	CA	ILE	144	-12.177	15.752	18.582	1.00 17.36	1DIK1179
ATOM	1088	ç	ILE	144	-12.882	16.490	17.431	1.00 19.27	1DIX1180
ATOM ATOM	1089 1090	O CB	ILE	144 144	-12.400 -12.874	16.492	16.281 18.911	1.00 20.66 1.00 21.52	101K1181
MOTA	1091		ILE	144	-11.943	14.422	19.789	1.00 21.52 1.00 21.60	1DIK1182 1DIK1183
MOTA	1092	CG2	ILE	144	-13.274	13.584 13.677	17.637	1.00 18.16	1DIK1184
MOTA	1093		ILE	144	-12.628	12.446	20.491	1.00 28.65	1DIK1185
ATOM	1094	N	ALA	145	-14.013	17.123	17.742	1.00 17.39	1DIK1186
ATOM	1095	CA	ALA	145	-14.780	17.889	16.752	1.00 15.97	1DIK1187
ATOM	1096	c	ALA	145	-13.951	19.066	16.243	1.00 18.18	1DIK1188
ATOM	1097	ō	ALA	145	-14.049	19.436	15.073	1.00 20.54	1DIK1189
ATOM	1098	ĊВ	ALA	145	-16.080	18.397	17.362	1.00 11.92	1DIK1190
ATOM	1099	N	SER	146	-13.141	19.654	17.125	1.00 17.49	1DIK1191
MOTA	1100	CA	SER	146	-12.273	20.768	16.759	1.00 18.53	101K1192
MOTA	1101	C	SER	146	-11.188	20.288	15.788	1.00 17.95	1DIK1193
MOTA	1102	0	SER	146	-10.843	20.988	14.823	1.00 15.32	1DIK1194
ATOM	1103	CB	SER	146	-11.648	21.379	18.015	1.00 20.60	1DIK1195
MOTA	1104	OG	SER	146	-12.654	21.966	18.836	1.00 18.35	1DIK1196
MOTA	1105	N	GLY	147	-10.668	19.088	16.047	1.00 17.16	1DIK1197
ATOM	1106	CA	GLY	147	-9.658	18.498	. 15.182	1.00 15.76	1DIK1198
MOTA	1107	c	GLY		-10.229	18.313	13.782	1.00 18.06	1DIK1199
ATOM	1108	0	GLY		-9.582	18.643	12.786 13.702	1.00 17.79	1DIK1200
ATOM	1109	N	LYS	148	-11.450	17.790	13.702	1.00 17.79	1DIK1201
ATOM	1110	CA	LYS	148	-12.123	17.585	12.422	1.00 16.21	1DIK1202
ATOM	1111	C	LYS		-12.423	18.870	11.651	1.00 17.80	101K1203
ATOM	1112	0	LYS	148	-12.351	18.871	10.414	1.00 16.69	1DIK1204

MOTA	1113	СВ	LYS	148	-13.422	16.821	12.631	1.00 20.50	1DTK1205
MOTA	1114	CG	LYS	148	-13.219	15.389	13.023	1.00 22.63	1DIK1206
ATOM	1115	CD	LYS	148	-14.539	14.722	13.227	1.00 27.17	1DIK1207
ATOM	1116	CE	LYS	148	-14.342	13.245	13.427	1.00 34.56	1DIK1208
ATOM	1117	NZ	LYS	148	-15.652	12.546	13.477	1.00 43.70	101K1209
MOTA	1118	N	LYS	149	-12.765	19.956	12.355	1.00 16.53	1DIK1210
MOTA	1119	CA	LYS	149	-13.049	21.221	11.680	1.00 19.05	
MOTA	1120	č.	LYS	149	-11 756				1DIK1211
ATOM	1121	ō	LYS	149	-11.756 -11.747 -13.725	21.821	11.132	1.00 19.26	1DIK1212
ATOM	1122	ĊВ	LYS	149	-12.797	22.412	10.050	1.00 19.18	1DIK1213
ATOM	1123	CG	LYS	149	-13.723	22.234	12.608	1.00 19.43	1DIK1214
	1124	CD	LYS	149	-15.018	21.775	13.196	1.00 25.49	1DIK1215
MOTA				149	-15.954	21.157	12.163	1.00 24.15	1DIX1216
ATOM	1125	CE	LYS		-16.677	22.178	11.350	1.00 24.54	1DIX1217
ATOM	1126	NZ	LYS	149	-17.717	21.492	10.530	1.00 23.29	1DIX1218
MOTA	1127	N	PHE	150	-10.672	21.677	11.885	1.00 17.03	1DIK1219
ATOM	1128	CA	SHE	150	-9.368	22.178	11.462	1.00 17.33	1DIK1220
MOTA	1129	_	PHE	150	-8.992	21.469	10.163	1.00 18.46	1DIK1221
MOTA	1130	0	BHE	150	-8.540	22.104	9.222	1.00 20.65	1DIK1222
MOTA	1131	CB	PHE	150	-8.321	21.892	12.555	1.00 17.32	1DIK1223
ATOM	1132	CG.	PHE	150	-6.916	22.282	12.185	1.00 17.15	1DIK1224
MOTA	1133	CD1		150	-6.110	21.428	11.433	1.00 15.76	1DIK1225
ATOM	1134	CD2		150	-6.387	23.491	12.601	1.00 16.86	1DIX1226
ATOM	1135	CEl		150	-4.803	21.769	11.102	1.00 13.21	1DIK1227
ATOM	1136	CEZ		150	-5.075	23.841	12.274	1.00 18.79	1DIK1228
ATOM	1137	CZ	PHE	150	-4.283	22.973	11.521	1.00 18.15	1DIK1229
ATOM	1138	N	ILE	151	-9.186	20.151	10.123	1.00 18.70	1DIK1230
ATOM	1139	CA	ILE	151	-8.887	19.337	8.949	1.00 16.84	1DIK1231
ATOM	1140	Ç	ILE	151	-9.700	19.829	7.751	1.00 21.25	1DIK1232
ATOM	1141	0	ILE	151	-9.212	19.895	6.621	1.00 22.35	1DIK1233
ATOM	1142	CB	ILE	151	-9.205	17.858	9.229	1.00 19.09	10IK1234
MOTA	1143	CG1		151	-8.109	17.255	10.109	1.00 15.35	1DIK1235
MOTA	1144		ILE	151	-9.324	17.067	7.938	1.00 15.46	1DIK1236
ATOM	1145	CD1		151	-8.418	15.B50	10.569	1.00 15.29	1DIK1237
ATOM	1146	N	GLU	152	-10.948	20.181	8.001	1.00 22.78	1DIK1238
ATOM	1147	CA	GLU	152	-11.821	20.692	6.954	1.00 22.06	1DIK1239
MOTA	1148	C	GLU	152	-11.208	21.958	6.339	1.00 22.51	1DIK1240
MOTA	1149	0	GLU	152	-11.019	22.033	5.125	1.00 27.84	1DIK1241
MOTA	1150	CB	GLU	152	-13.186	20.998	7.560	1.00 23.89	10IK1242
MOTA	1151	CG	GLU	152	-14.321	21.169	6.578	1.00 27.41	1DIX1243
MOTA	1152	CD	GLU	152	-15.650	21.403	7.293	1.00 27.55	1DIK1244
HOTA	1153	OEL	GLU	152	-15.975	20.635	8.241	1.00 21.35	1DIK1245
ATOM	1154	0E2	GLU	152	~16.357	22.358	6.897	1.00 28.87	1DIK1246
ATCM	1155	N	GLY	153	-10.892	22.943	7.176	1.00 20.57	1DIK1247
ATOM	1156	CA	GLY	153	-10.305	24.177	6.693	1.00 19.76	10IK1248
ATOM	1157	C	GLY	153	-8.990	23.965	5.955	1.00 23.46	1DIK1249
ATOM	1158	0	GLY	153	-8.773	24.528	4.886	1.00 25.73	1DIK1250
ATOM	1159	N	PHE	154	-8.114	23.145	6.528	1.00 22.50	10IX1251
ATOM	1160	CA	PHE	154	-6.803	22.835	5.958	1.00 18.12	10IK1252
ATOM	1161	c	PHE	154	-6.921	22.181	4.570	1.00 21.03	1DIK1253
ATOM	1162	0	PHE	154	~6.275	22.606	3.595	1.00 16.52	1DIK1254
ATOM	1163	CB	PHE	154	-6.048	21.909	6.937	1.00 16.95	101K12SS
ATOM	1164	CG	PHE	154	-4.730	21.407	6.422	1.00 14.32	101K1256
MOTA	1165	CDl	PHE	154	-4.666	20.253	5.635	1.00 13.33	10IK1257
ATOM	1166	CD2	PHE	154	-3.548	22.093	6.713	1.00 14.60	1DIK1258
ATOM	1167		PHE	154	-3.432	19.781	5.134	1.00 13.26	1DIK1259
MOTA	1168		PHE	154	-2.308	21.639	6.224	1.00 15.41	1DIK1260
MOTA	1169	CZ	PHE	154	-2.250	20.483	5.432	1.00 15.03	101X1261
ATOM	1170	N	GLN	155	-7.757	21.152	4.479	1.00 20.29	101K1262
MOTA	1171	CA	GLN	155	-7.921	20.441	3.231	1.00 21.66	10IK1263
ATOM	1172	C	GLN	155	-8.626	21.290	2.170	1.00 25.36	1DIK1264
MOTA	1173	0	GLN	155	-8.255	21.256	0.983	1.00 26.48	1DIX1265
MOTA	1174	C3	GLN	155	-8.653	19.118	3.475	1.00 21.80	1DIK1266
MOTA	1175	CG	GLN	155	-8.471	18.085	2.369	1.00 27.70	10IK1267
ATOM	1176	CD	GLN	155	-7.001	17.785	2.056	1.00 32.63	10IK1268
MOTA	1177		GLN	155	-6.105	18.052	2.859	1.00 34.93	1DIK1269
MOTA	1178	NEZ	GLN	155	-6.753	17.229	0.883	1.00 32.41	101X1270
ATOM	1179	N	SER	156	-9.628	22.059	2.581	1.00 22.38	1DIX1271
MOTA	1180	CA	SER	156	-10.355	22.911	1.632	1.00 27.24	1DIK1272
ATOM	1181	С	SER	156	-9.474	23.925	0.912	1.00 26.37	1DIK1273
ATOM	1182	0	SER	156	-9.733	24.273	-0.246	1.00 26.94	1DIK1274
MOTA	1183	CB	SER	156	-11.477	23.644	2.347	1.00 25.77	1DIK1275
MOTA	1184	OG	SER	156	-12.392	22.686	2.834	1.00 38.06	1DIK1276
MOTA	1185	N	THR	157	-8.442	24.400	1.610	1.00 25.19	1DIK1277
ATOM	1186	CA	THR	157	-7.499	25.365	1.062	1.00 22.52	1DIK1278
ATOM	1187	C	THR	157	-6.535	24.632	0.123	1.00 24.65	1DIK1279
ATOM	1188	0	THR	157	-6.147	25.163	-0.928	1.00 23.24	1DIK1280
ATOM	1189	СВ	THR	157	-6.702	26.040	2.189	1.00 21.15	101K1281
ATOM	1190	0G 1	THR	157	-7.599	26.414	3.238	1.00 24.29	1DIK1282
MOTA	1191	CG 2	THR	157	-6.012	27.292	1.679	1.00 16.11	1DIK1283
ATOM	1192	N	LYS	158	-6.161	23.411	0.509	1.00 21.14	1DIK1284
ATOM	1193	CA	LYS	158	-5.254	22.599	-0.279	1.00 22.69	1DIK1285
MOTA	1194	C	LYS	158	-5.848	22.241	-1.656	1.00 22.91	1DIK1286
ATOM	1195	ō	LYS	158	-5.131	22.216	-2.655	1.00 20.40	1DIK1287
ATOM	1196	CB	LYS	158	-4.890	21.335	0.495	1.00 20.54	101X1288
ATOM	1197	CG	LYS	158	-3.806	20.504	-0.174	1.00 20.74	1DIX1289

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1198 CD LYS 1199 CE LYS 1200 NZ LYS 1201 N LEU 1202 CA LEU 1203 C LEU 1205 CB LEU 1206 CG LEU 1207 CD1 LEU 1208 CD2 LEU 1208 CD2 LEU 1209 N LYS 1210 CA LYS 1211 C LYS 1211 C LYS 1212 C LYS 1213 CB LYS 1214 CG LYS 1215 CD LYS 1215 CD LYS 1216 CE LYS 1217 NZ LYS 1217 NZ LYS	158 158 159 159 159 159 159 160 160 160 160 160 160	-3.200 19.556 -2.215 18.618 -1.529 17.800 -7.151 21.972 -7.819 21.638 -7.784 22.786 -7.781 22.558 -9.286 21.297 -9.611 20.081 -11.10 20.032 -7.781 24.015 -7.759 25.196 -6.343 25.615 -6.161 26.651 -8.426 26.383 -9.827 26.183 -9.827 26.183 -9.827 26.183 -10.152 27.402 -11.463 27.266 -11.817 28.556	0.829 0.187 1.220 -1.703 -2.959 -3.940 -5.144 -2.743 -1.913 -1.750 -2.571 -3.4281 -4.632 -5.268 -3.592 -3.080 -2.228 -1.482 -0.806 -4.223	1.00 24.06 1.00 20.01 1.00 21.14 1.00 24.27 1.00 26.47 1.00 29.65 1.00 21.63 1.00 29.65 1.00 29.97 1.00 27.07 1.00 27.06 1.00 27.06 1.00 29.62 1.00 29.62 1.00 31.28 1.00 49.39 1.00 49.39 1.00 25.13	1DIK1290 1DIK1291 1DIK1292 1DIK1293 1DIK1294 1DIK1295 1DIK1296 1DIK1297 1DIK1298 1DIK1300 1DIK1300 1DIK1301 1DIK1302 1DIK1303 1DIK1305 1DIK1306 1DIK1306 1DIK1306 1DIK1307 1DIK1308 1DIK1308 1DIK1309 1DIK1309			
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1219 CA ASP 1220 C ASP 1221 O ASP 1222 CB ASP 1223 CG ASP 1224 OD1 ASP 1225 OD2 ASP 1226 N PRO 1227 CA PRO 1227 CA PRO 1229 O PRO 1230 CB PRO 1231 CG PRO 1231 CG PRO 1232 CD PRO 1232 CD PRO 1233 N ARG 1235 C ARG	161 161 161 161 162 162 162 162 163 163	-3.954 25.193 -3.416 24.467 -3.237 23.250 -3.082 24.897 -1.642 25.368 -1.314 25.998 -0.819 25.114 -3.134 25.222 -2.622 24.685 -1.352 23.853 -1.148 22.886 -2.354 25.947 -3.370 26.919 -3.274 26.690 -0.502 24.231 0.758 23.529		1.00 27.83 1.00 29.13 1.00 27.42 1.00 30.76 1.00 38.67 1.00 33.61 1.00 33.28 1.00 34.55 1.00 34.55 1.00 34.27 1.00 36.00 1.00 34.24	1DIK1311 1DIK1312 1DIK1313 1DIK1314 1DIK1316 1DIK1316 1DIK1317 1DIK1318 1DIK1319 1DIK1321 1DIK1322 1DIK1322 1DIK1323 1DIK1324 1DIK1325 1DIK1325	·	÷	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1236 O ARG 1237 CB ARG 1238 CG ARG 1239 CD ARG 1240 NE ARG 1241 CZ ARG 1241 NH1 ARG 1243 NH2 ARG 1244 N ALA 1245 CA ALA 1246 C ALA 1247 O ALA 1248 CB ALA 1249 N GLN 1250 CA GLN 1251 C GLN 1251 C GLN 1251 C GLN 1253 CB GLN	163 163 163 163 163 164 164 164 165 165 165 165 165	1.669 21.693 1.802 24.525 1.929 25.753 3.014 26.683 4.304 25.997 5.337 26.386 6.464 25.685 -0.539 22.072 -0.762 20.962 -0.656 19.530 -0.984 19.540 -2.130 21.087 -0.197 18.539 -0.355 17.283 -1.336 16.530 0.885 16.520	-5.123 -5.902 -5.149 -6.325 -3.74 -4.460 -5.076 -5.281 -4.348	1.00 31.55 1.00 42.55 1.00 53.77 1.00 63.94 1.00 74.87 1.00 84.40 1.00 34.08 1.00 34.08 1.00 35.29 1.00 35.17 1.00 38.56 1.00 38.34 1.00 38.34	101K1328 101K1329 101K1330 101K1331 101K1333 101K1334 101K1335 101K1336 101K1337 101K1338 101K1339 101K1340 101K1340 101K1344 101K1344			
MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	1254 CG GLM 1255 CD GLN 1256 OE1 GLN 1257 NE2 GLN 1258 N PRO 1259 CA PRO 1260 C PRO 1261 O PRO 1262 CB PRO 1263 CG PRO 1264 CD PRO 1265 N GLY 1266 CA GLY 1267 C GLY 1268 O GLY 1268 N GLY	165 165 165 166 166 166 166 166 167 167 167	1.155 15.104 2.472 14.565 3.461 14.718 2.516 13.932 -1.664 16.207 -2.902 15.485 -3.006 14.057 -2.010 13.348 -2.889 15.502 -1.405 15.492 -0.884 16.486 -4.215 13.656 -4.453 12.313 -3.990 11.986 -4.10 10.867 -3.372 12.951	-4.907 -4.5024 -3.332 -6.542 -6.326 -6.326 -6.240 -8.427 -7.747 -5.943 -4.032 -3.550	1.00 52.03 1.00 57.76 1.00 52.19 1.00 33.99 1.00 31.51 1.00 28.13 1.00 28.29 1.00 29.54 1.00 29.54 1.00 24.69 1.00 25.28 1.00 24.69	1DIK1346 1DIK1347 1DIK1349 1DIK1350 1DIK1351 1DIK1352 1DIK1353 1DIK1355 1DIK1355 1DIK1356 1DIK1357 1DIK1358 1DIK1359 1DIK1360 1DIK1360			
MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	1270 CA GLN 1271 C GLN 1272 O GLN 1273 CB GLN 1274 CG GLN 1275 CD GLN 1275 NE2 GLN 1277 NE2 GLN 1278 N SER 1278 CA SER 1280 C SER 1281 O SER 1281 O SER	168 168 168 168 168 168 169 169 169	-2.882 12.759 -4.065 12.534 -5.177 13.035 -2.081 13.987 -1.155 13.744 -0.012 14.736 -0.185 15.937 1.176 14.239 -3.853 11.781 -4.958 11.530 -5.214 12.673 -4.737 10.205	-1.062 -1.295 -1.596 -0.439 -0.685 -0.664 0.005 0.916 1.882	1.00 30.05 1.00 33.87 1.00 29.61 1.00 30.19 1.00 23.60 1.00 26.25 1.00 25.94	1DIK1362 1DIK1363 1DIK1364 1DIK1365 1DIK1366 1DIK1368 1DIK1369 1DIK1370 1DIK1371 1DIK1372 1DIK1373 1DIK1373	e st See a see	i sa	

ATOM	1283	OG	SER	169	-3.432	10.135	2.184	1.00 35.33	1DIK1375
ATOM	1284	N .	SER	170	-6.418	12.724	2.444	1.00 25.08	1DIK1376
MOTA	1285	CA	SER	170	-6.756	13.759	3.414	1.00 23.05	1DIK1377
ATOM	1286	c	SER	170	-6.169	13.440	4.791	1.00 21.06	1DIK1378
MOTA	1287	0	SER	170	-5.867	12.280	5.101	1.00 19.23	1DIK1379
ATOM	1288	CB	SER	170	-8.273	13.838	3.586	1.00 20.90	1DIK1380
MOTA	1289	OG	SER	170	-8.909	14.154	2.380	1.00 31.58	10IK1381
ATOM	1290	N	PRO	171	-5.993	14.463	5.637	1.00 20.40	1DIK1382
ATOM	1291	CA	PRO	171	-5.461	14.175	6.967	1.00 19.96	101K1383
ATOM	1292	C	PRO	171	-6.650	13.566	7.727	1.00 20.25	1DIK1384
ATOM	1293	ō	PRO	171	-7.788	13.548	7.228	1.00 16.51	1DIK1385
ATOM	1294	СB	PRO	171	-5.147	15.566	7.531	1.00 22.09	1DIK1386
ATOM	1295	ČĞ	PRO	171	-5.169	16.491	6.329	1.00 21.91	1DIK1387
ATOM	1296	CD	PRO	171	-6.236	15.905	5.471	1.00 22.51	1DIK1388
ATOM	1297	N	LYS	172	-6.397	13.076	8.931	1.00 20.67	1DIK1389
ATOM	1298	CA	LYS	172	-7.458	12.515	9.764	1.00 20.50	1DIX1390
ATOM	1299	c	LYS	172	-6.873	12.446	11.164	1.00 19.29	1DIK1391
ATOM	1300	ō	LYS	172	-5.686	12.709	11.362	1.00 19.22	101K1392
ATOM	1301	CB	LYS	172	-7.867	11.114	9.286	1.00 18.29	1DIK1393
ATOM	1302	CG	LYS	172	-6.703	10.172	9.177	1.00 18.63	1DIK1394
ATOM	1303	CD	LYS	172	-7.122	8.761	9.350	1.00 23.30	1DIK1395
MOTA	1304	CE	LYS	172	-5.885	7.903	9.304	1.00 30.02	1DIK1396
ATOM	1305	NZ	LYS	172	-6.233	6.492	9.627	1.00 44.40	1DIK1397
MOTA	1306	N	ILE	173	-7.698	12.100	12.136	1.00 16.98	1DIK1398
ATOM	1307	CA	ILE	173	-7.218	11.998	13.493	1.00 19.06	1DIK1399
ATOM	1308	С	ILE	173	-6.583	10.614	13.635	1.00 22.40	1DIK1400
MOTA	1309	ō	ILE	173	-7.266	9.593	13.768	1.00 21.26	1DIK1401
ATOM	1310	СВ	ILE	173	-8.371	12.274	14.475	1.00 19.92	1DIK1402
ATOM	1311	CG1		173	-8.868	13.715	14.232	1.00 18.99	1DIK1403
ATOM	1312	CG2		173	-7.902	12.109	15.921	1.00 20.59	1DIK1404
ATOM	1313	CD1	ILE	173	-10.087	14.103	14.987	1.00 16.15	1DIK1405
ATOM	1314	N	ASP	174	-5.256	10.599	13.588	1.00 19.22	1DIK1406
ATOM	1315	CA	ASP	174	-4.504	9.366	13.667	1.00 18.78	1DIK1407
ATOM	1316	C	ASP	174	-4.495	8.689	15.021	1.00 20.21	1DIK1408
ATOM	1317	ō	ASP	174	-4.507	7.463	15.087	1.00 23.44	1DIK1409
ATOM	1318	CB	ASP	174	-3.074	9.606	13.213	1.00 16.70	1DIK1410
MOTA	1319	CG	ASP	174	-3.001	10.130	11.793	1.00 21.97	1DIK1411
ATOM	1320		ASP	174	-3.185	9.320	10.853	1.00 28.66	1DIX1412
ATOM	1321	OD2		174	-2.763	11.348	11.618	1.00 15.14	1DIX1413
ATOM	1322	N	VAL	175	-4.464	9.470	16.099	1.00 19.64	1DIK1414
ATOM	1323	CA	VAL	175	-4.453	8.903	17.449	1.00 15.74	1DIK1415
ATOM	1324	Ċ	VAL	175	-5.381	9.700	18.364	1.00 19.16	1DIK1416
MOTA	1325	0	VAL	175	-5.346	10.942	18.361	1.00 22.21	1DIK1417
MOTA	1326	CB	VAL	175	-3.016	8.940	18.088	1.00 15.96	1DIK1418
MCTA	1327	CG1	VAL	175	-3.013	8.205	19.427	1.00 11.79	1DIK1419
ATOM	1328	CG2	VAL	175	-1.967	8.323	17.154	1.00 15.25	1DIK1420
MOTA	1329	N	VAL	176	-6.220	9.009	19.135	1.00 16.60	1DIK1421
ATOM	1330	CA	VAL	176	-7.078	9.696	20.099	1.00 18.96	1DIK1422
ATOM	1331	C	VAL	176	-6.630	9.238	21.484	1.00 18.63	1DIK1423
ATOM	1332	0	VAL	176	-6.837	8.084	21.849	1.00 19.14	1DIK1424
ATOM	1333.	CB	VAL	176	-8.585	9.390	19.923	1.00 19.70	1DIK1425
ATOM	1334	CGl	VAL	176	-9.382	10.058	21.050		1DIK1426
ATOM	1335	CG2	VAL	176	-9.071	9.919	18.580	1.00 18.39	1DIK1427
MOTA	1336	N	ILE	177	-6.017	10.135	22.249	1.00 16.49	1DIK1428
ATOM	1337	CA	ILE	177	-5.528	9.790	23.578	1.00 18.84	1DIK1429
MOTA	1338	С	ILE	177	-6.626	9.871	24.646	1.00 22.64	1DIK1430
MOTA	1339	0	ILE	177	-7.233	10.926	24.877	1.00 21.84	1DIK1431
ATOM	1340	CB	ILE	177	-4.331	10.669	23.959	1.00 17.93	1DIK1432
MOTA	1341		ILE	177	-3.258	10.548	22.876	1.00 21.31	10IK1433
MOTA	1342	CG2		177	-3.747	10.209	25.293	1.00 13.33	1DIK1434
MOTA	1343		ILE	177	-2.129	11.530	23.031	1.00 24.99	1DIK1435
MOTA	1344	N	SER	178	-6.879	8.740	25.293	1.00 22.92	1DIK1436
MOTA	1345	CA	SER	178	-7.913	8.664	26.308	1.00 22.43	1DIK1437
HOTA	1346	С	SER	178	-7.692	9.620	27.469	1.00 23.70	1DIX1438
MOTA	1347	0	SER	178	-6.562	9.880	27.896	1.00 19.07	1DIK1439
ATOM	1348	CB	SER	178	-8.019	7.234	26.832	1.00 24.76	1DIK1440
MOTA	1349	OG	SER	178	-8.931	7.149	27.918	1.00 26.50	101K1441
MOTA	1350	N	GLU	179	-8.802	10.138	27.975	1.00 23.30	101X1442
ATOM	1351	CA	GLU	179	-8.763	11.032	29.109	1.00 24.10	1DIK1443
MOTA	1352	Ç	GLU	179	-9.145	10.299	30.390	1.00 26.08	101K1444
ATOM	1353	0_	GLU	179	-9.372	10.299	30.390 31.424	1.00 28.11	101K1445
ATOM	1354	CB	GLU	179	-9.683	12.219	28.875	1.00 20.32	1DIK1446
ATOM	1355	CG	GLU	179	-9.046	13.277	28.013	1.00 19.78	1DIK1447
ATOM	1356	CD.	GLU	179	-9.975	14.413	27.679	1.00 21.33	101K1448
MOTA	1357		GLU	179	-11.081	14.507	28.248	1.00 28.21	10IK1449
MOTA	1358	OE2		179	-9.595	15.224	26.832	1.00 24.31	1DIX1450
ATOM	1359	N	ALA	180	-9.220	8.970	30.326	1.00 27.12	101K1451
MOTA	1360	CA	ALA	180	-9.554	8.166	31.501	1.00 28.40	101X1452
ATOM	1361	Ç	ALA	180	-8.508	8.476	32.578	1.00 29.95	101K1453
MOTA	1362	0_	ALA	180	-7.325	8.664	32.271	1.00 28.75	1DIK1454
MOTA	1363	CB	ALA	180	-9.542	6.694	31.151	1.00 22.95	10IK1455
MOTA	1364	N	SER	181	-8.944	8.525	33.831	1.00 31.85	1DIK1456
MOTA	1365	CA	SER	181	-8.049	B.866	34.939	1.00 35.04	1DIK1457
ATOM	1366	c	SER		-6.762	8.047	35.009	1.00 31.72	101K1458
MOTA	1367	0	SER	181	-5.755	8.525	35.525	1.00 33,94	1DIK1459

ATOM	1368	ÇВ	SER	181	-8.806	8.770	36.260	1.00 36.11	1DIK1460
ATOM	1369 ·	QG	SER	181	-9.377	7.479	36.373	1.00 46.40	1DIK1461
ATOM	1370	N	SER	182	-6.798	6.821	34.500	1.00 27.14	1DIK1462
ATOM	1371	CA	SER	182	-5.615	5.963	34.488	1.00 29.83	1DIK1463
MOTA	1372	c	SER	182	-4.792	6.051	33.181	1.00 30.65	1DIK1464
ATOM	1373	ō	SER	182	-3.808	5.329	33.013	1.00 35.32	1DIK1465
ATOM	1374	CB	SER	182	-6.023	4.496	34.726	1.00 32.11	1DIK1466
MOTA	1375	ŌĞ	SER	182	-6.967	4.032	33.757	1.00 33.33	1DIK1467
ATOM	1376	N	SER	183	-5.187	6.924	32.261	1.00 26.39	1DIK1468
ATOM	1377	CA	SER	183	-4.499	7.049	30.986	1.00 21.35	1DIK1469
ATOM	1378	C	SER	183	-3.268	7.953	30.986	1.00 18.80	1DIK1470
ATOM	1379	ō	SER	183	-3.263	9.002	31.621	1.00 18.57	1DIK1471
ATOM	1380	CB	SER	183	-5.499	7.547	29.952	1.00 23.15	1DIK1472
ATOM	1381	OG	SER	183	-4.884	7.739	28.702	1.00 22.70	1DIK1473
ATOM	1382	N	ASN	184	-2.216	7.545	30.281	1.00 21.24	1DIK1474
MOTA	1383	CA	ASN	184	-1.012	8.383	30.160	1.00 22.85	101K1475
MOTA	1384	С	ASN	184	-1.287	9.264	28.942	1.00 22.55	1DIK1476
ATOM	1385	0	ASN	184	-1.275	8.786	27.805	1.00 21.64	1DIK1477
MOTA	1386	CB	ASN	184	0.233	7.542	29.918	1.00 25.23	1DIK1478
ATOM	1387	CG	ASN	184	0.476	6.547	31.027	1.00 29.76	1DIK1479
ATOM	1388	OD1	ASN	184	0.631	6.927	32.186	1.00 25.74	1DIK1480
ATOM	1389	ND2	ASN	184	0.505	5.259	30.680	1.00 31.61	1DIX1481
MOTA	1390	И	A5N	185	-1.536	10.546	29.197	1.00 20.70	1DIK1482
MOTA	1391	CA	ASN	185	-1.903	11.526	28.177	1.00 18.51	1DIK1483
ATOM	1392	C	ASN	185	-1.015	12.775	28.289	1.00 18.05	1DIK1484
MOTA	1393	0	ASN	185	-1.179	13.567	29.209	1.00 19.30	1DIK1485
MOTA	1394	СВ	ASN	185	-3.386	11.879	28.421	1.00 17.92	1DIK1486
ATOM	1395	CG	ASN	185	-3.990	12.809	27.376	1.00 20.11	1DIK1487
MOTA	1396		A5N	185	-5.199	12.965	27.331	1.00 25.61	1DIK1488
ATOM	1397		ASN	185	-3.174	13.421	26.543	1.00 23.70	1DIK1489
MOTA	1398	N	THR	186	-0.089	12.962	27.350	1.00 18.02	1DIK1490 1DIK1491
MOTA	1399	CA	THR	186	0.809	14.116	27.383	1.00 19.61 1.00 23.05	1DIK1492
ATOM	1400	Ç	THR	186	0.117	15.452	27.104	1.00 24.23	101K1493
MOTA	1401	0	THR	186	0.619	16.513	27.477 26.367	1.00 20.27	1DIK1494
ATOM	1402	CB	THR	186	1.959	13.971 13.772	25.062	1.00 19.57	1DIK1495
ATOM	1403	061		186	1.410		26.731	1.00 15.78	1DIX1496
ATOM	1404	CG2		186	2.871	12.815 15.398	26.443	1.00 22.21	1DIX1497
ATOM	1405	N	LEU	187	-1.030 -1.772	16.597	26.092	1.00 21.72	1DIK1498
MOTA	1406	CA	LEU	187	-1.772	17 200	27.259	1.00 23.64	1DIK1499
MOTA	1407	C	LEU	187	-2.549 -2.797	17.208 18.410	27.282	1.00 22.02	1DIK1500
MOTA	1408	0	LEU	187	-2.716	16 276	24.933	1.00 23.09	1DIK1501
MOTA	1409	CB	LEU	187	-2.063	16.276 15.798	23.623	1.00 23.80	1DIK1502
ATOM	1410	CG	LEU	187 187	-3.140	15.295	22.673	1.00 19.98	1DIX1503
MOTA	1411	CD1		187	-1.262	16.926	22.984	1.00 19.12	1DIK1504
MOTA	1412	CD2	A5P	188	-2.934	16.376	28.218	1.00 24.87	101K1505
MOTA	1413	N CA	ASP	188	-3.684	16.815	29.399	1.00 28.75	1DIK1506
ATOM	1414	C	ASP	188	-3.540	15.688	30.424	1.00 27.51	1DIK1507
ATOM	1415 1416	ŏ	ASP	188	-4.431	14.851	30.584	1.00 30.17	1DIK1508
MOTA MOTA	1417	ÇВ	A52	188	-5.165	17.042	29.041	1.00 34.58	1DIK1509
ATOM	1418	CG	ASP	188	-5.958	17.724	30.171	1.00 41.42	1DIK1510
ATOM	1419	001		188	-5.474	18.727	30.765	1.00 42.84	101K1511
ATOM	1420		ASP	188	-7.079	17.246	30.461	1.00 42.36	1DIK1512
MOTA	1421	N	PRO	189	-2.398	15.653	31.129	1.00 26.10	1DIK1513
ATOM	1422	CA	PRO	189	-2.107	14.622	32.137	1.00 25.17	1DIK1514
ATOM	1423	c	PRO	189	-3.063	14.609	33.322	1.00 26.14	1DIK1515
ATOM	1424	ŏ	PRO	189	-3.442	15.671	33.825	1.00 27.85	1DIK1516
ATOM	1425	ČВ	PRO	189	-0.677	14.959	32.579	1.00 21.04	1DIK1517
ATOM	1426	ČĞ	PRO	189	-0.113	15.765	31.425	1.00 21.36	1DIK1518
ATOM	1427	CD	PRO	189	-1.286	16.615	31.026	1.00 22.23	1DIK1519
ATOM	1428	N	GLY	190	-3.442	13.413	33.766	1.00 24.92	1DIK1520
ATOM	1429	CA	GLY	190	-4.325	13.296	34.910	1.00 24.73	1DIK1521
ATOM	1430	C	GLY	190	-3.783	12.314	35.934	1.00 29.33	1DIK1522
ATOM	1431	Ō	GLY	190	-4.457	12.016	36.917 35.722	1.00 32.88	1DIK1523
MOTA	1432	N	THR	191	-2.563	11.824	35.722	1.00 26.97	101K1524
ATOM	1433		THR	191	-1.964	10.826	36.603	1.00 26.69	1DIK1525
ATOM	1434	C	THR	- 191	-1.040	11.316	37.725	1.00 30.17	1DIK1526
MOTA	1435	. 0	THR	191	-0.535	10.507	38.518	1.00 32.24	1DIK1527
ATOM	1436	СВ	THR	191	-1.202	9.781	35.776	1.00 25.25	1DIK1528
ATOM	1437	OG 1	LTHR	191	-0.258	10.449	34.927	1.00 25.22	10IK1529
ATOM	1438	CG	THR.	191	-2.170	8.967	34.918	1.00 24.37	1DIK1530
ATOM	1439	N	CYS	192	-0.B05	12.621	37.800	1.00 29.82	1DIK1531
ATOM	1440	CA	CYS	192	0.055	13.164	38.847	1.00 29.63	1DIK1532
MOTA	1441	C	CYS	192	-0.783	13.395	40.101	1.00 29.84	1DIK1533
ATOM	1442	0	CYS	192	-1.282	14.507	40.330 38.387	1.00 26.80	1DIK1534
ATOM	1443	CB	CYS	192	0.699	14.466	38.387	1.00 28.28	101K1535
ATOM	1444	SG	CXS	192	1.766	13.22/	39.646	1.00 30.95	1DIK1536
ATOM	1445	N	THR		-0.924	12.333	40.900	1.00 31.00	1DIK1537
ATOM	1446		THR		-1.719	12.331	42.134	1.00 30.54	1DIK1538
MOTA	1447	C	THR		-1.679	13.595	42.998	1.00 28.74	1DIX1539
MOTA	1448	0	THR		-2.718	14.231	43.213	1.00 26.01	1DIK1540
MOTA	1449				-1.371	11.117	43.018	1.00 34.12	LDIK1541
MOTA	1450		1 THR		-1.408	9.919	42.231	1.00 39.67	1DIK1542
MOTA	1451	CG	Z THR	193	-2.386	10.976	44.130	1.00 35.19	1DIK1543
ATOM	1452		VAL	. 194	-0.503	13.969	43.489	1.00 27.22	1DIK1544

ATOM	1453	CA	VAL	194	-0.415	15.157	44.323	1 00 20 44	10771546
ATOM	1454	ē"	VAL	194	-0.953	16.406	43.614	1.00 30.44	1DIK1545
HOTA	1455	ŏ	VAL	194	-1.705		44.211		1DIK1546
MOTA	1456	ČВ	VAL	194	1.022	17.178	44.829		1DIK1547
ATOM	1457	CG1		194	1.175	15.387	45.390	1.00 31.50	1DIK1548
ATOM	1458	CGZ		194	1.339	16.793		1.00 27.45	1DIK1549
HOTA	1459	N	PHE	195		14.382	45.914	1.00 26.96	1DIK1550
HOTA	1460	CA	PHE	195	-0.587	16.600	42.349	1.00 33.70	1DIK1551
ATOM	1461	c	PHE	195	~1.049	17.768	41.598	1.00 32.23	1DIK1552
ATOM	1462	ŏ	PHE	195	-2.575	17.802	41.485	1.00 33.46	10IK1553
		СВ		195	-3.195	18.853	41.665	1.00 34.15	1DIK1554
ATOM ATOM	1463 1464	CG	PHE	195	-0.429	17.803	40.192	1.00 28.54	1DIK1555
	1465	CD1		195	-0.987	18.890	39.311	1.00 24.30	1DIK1556
MOTA MOTA	1466	CDZ		195	-0.563	20.207	39.457	1.00 21.84	1DIK1557
ATOM	1467	CEI		195	-1.952 -1.087	18.595	38.344	1.00 22.84	10IK1558
ATOM	1468	CE2		195		21.237	38.650	1.00 28.26	1DIK1559
ATOM	1469	CZ	PHE	195	-2.486	19.610	37.529	1.00 26.40	1DIK1560
ATOM	1470	N	GLU	196	-2.051	20.940	37.684	1.00 23.76	1DIK1561
ATOM	1471	CA	CLU	196	-3.174	16.656	41.188	1.00 33.59	1DIK1562
ATOM	1472	c	GLU	196	-4.618 -5.357	16.574	41.048	1.00 34.08	1DIK1563
ATOM	1473	ŏ	GLU	196	-6.497	16.966	42.328	1.00 35.44	1DIK1564
ATOM	1474	CB	GLU	196	-5.026	17.411	42.266	1.00 35.61	1DIK1565
ATOM	1475	CG	GLU	196	-4.509	15.165 14.774	40.602	1.00 34.98 1.00 37.27	1DIK1566
ATOM	1476	CD	GLU	196	-5.098	15.638	39.211		1DIK1567
ATOM	1477	OE1		196	-6.338	15.806	38.094 38.053	1.00 40.35	1DIK1568
MOTA	1478	OEZ		196	-4.332	16.154		1.00 45.20 1.00 33.72	IDIK1569
ATOM	1479	N	ASP	197	-4.715	16.807	37.256 43.483	1.00 38.29	1DIK1570
MOTA	1480	ĊA	ASP	197	-5.352	17.160			1DIK1571
MOTA	1481	c .	ASP	197	-5.141	18.621	44.758 45.173	1.00 40.02	1DIK1572 1DIK1573
ATOM	1482	ŏ	ASP	197	-5.770	19.093	46.110	1.00 38.49	1DIK1574
ATOM	1483	CB	ASP	197	-4.862	16.234	45 887	1.00 43.17	1DIK1575
ATOM	1484	ĊĞ	ASP	197	-5.402	14.805	45.887 45.766	1.00 48.76	1DIK1576
ATOM	1485	ODI		197	-6.582	14.630	45.373	1.00 50.32	1DIK1577
MOTA	1486	OD2		197	-4.640	13.853	46.069	1.00 49.19	1DIK1578
ATOM	1487	N	SER	198	-4.261	19.327	44.470	1.00 38.44	1DIK1579
ATOM	1488	ĈA	SER	198	-3.928	20.724	44.763	1.00 38.19	1DIK1580
ATOM	1489	c	SER	198	-5.131	21.675	44.824	1.00 39.35	1DIK1581
ATOM	1490	ō	SER	198	-6.001	21.639	43.952	1.00 38.20	101K1582
ATOM	1491	CB	SER	198	-2.929	21.231	43.713	1.00 34.00	1DIK1583
ATOM	1492	OG	SER	198	-2.404	22.508	44.049	1.00 37.33	1DIK1584
ATOM	1493	N	GLU	199	-5.175	22.530	45.848	1.00 40.37	1DIK1585
ATOM	1494	CA	GLU	199	-6.262	23.505	45.981	1.00 42.79	1DIK1586
ATOM	1495	C	GLU	199	-5.735	24.932	45.904	1.00 41.90	1DIK1587
ATOM	1496	0	GLU	199	-6.453	25.886	46.228	1.00 41.14	1DIK1588
MOTA	1497	CB	GLU	199	-7.010	23.322	47.295	1.00 47.81	1DIK1589
MOTA	1498	CG	GLU	199	-7.935	22.127	47.334.	1.00 56.13	1DIK1590
ATOM	1499	CD	CLU	199	-8.400	21.817	48.752	1.00 62.12	1DIK1591
MOTA	1500	OE1		199	-7.533	21.713	49.663	1.00 60.51	1DIK1592
ATOM	1501	OE2	GĽŰ	199	-9.631	21.680	48.952	1.00 64.72	1DIK1593
MOTA	1502	N	LEU	200	-4.485	25.079	45.465	1.00 39.80	1DIK1594
ATOM	1503	CA	LEU	200	-3.861	26.391	45.356	1.00 38.33	1DIK1595
MOTA	1504	č	LEU	200	-4.700	27.405	44.565	1.00 40.30	1DIX1596
MOTA	1505	0	LEU	200	-4.924	28.526	45.027	1.00 41.57	1DIK1597
MOTA	1506	CB	LEU	200	-2.469	26.260	44.740	1.00 34.44	1DIX1598
HOTA	1507 1508	CG	LEU	200	-1.659	27.564	44.728	1.00 38.04	1DIK1599
ATOM		CDI		200	-1.503	28.104	46.144	1.00 29.88	1DIK1600
MOTA MOTA	1509 1510	CDZ	ALA	200 201	-0.297	27.334	44.087	1.00 36.27	1DIK1601
	1511	N			-5.170	27.012	43.384	1.00 39.72	1DIK1602
ATOM ATOM	1512	CA C	ALA ALA	201 201	-5.974	27.901	42.549	1.00 38.07 1.00 39.57	1DIK1603
	1513	ŏ			-7.230 -7.633	28.400	43.247		1DIK1604
ATOM ATOM	1514	CB	ALA	201 201	-7.623 -6.354	29.541	43.048	1.00 41.56 1.00 33.45	1DIX1605
ATOM	1515	N	ASP	202	-7.863	27.211 27.557	41.249 44.060	1.00 42.79	1DIK1606 1DIK1607
ATOM	1516	CA	ASP	202	-9.089	27.949	44.767	1.00 46.09	1DIK1608
MOTA	1517	č	ASP	202	-8.812	29.026	45.804	1.00 46.30	1DIK1609
MOTA	1518	ŏ	ASP	202	-9.596	29.968	45.962	1.00 48.14	1DIK1610
MOTA	1519	СВ	ASP	202	-9.719	26.748	45.461	1.00 52.71	101K1611
ATOM	1520	CG	ASP	202	-10.027	25.624	44.503	1.00 62.26	1DIK1612
ATOM	1521	OD1		202	-10.673	25.892	43.457	1.00 62.64	1DIX1613
ATOM	1522	002		202	-9.617	24.476	44.804	1.00 68.25	1DIK1614
MOTA	1523	N	THR	203	-7.693	28.875	46.507	1.00 42.43	101K1615
ATOM	1524	CA	THR	203	-7.283	29.828	47.524	1.00 40.28	101K1616
MOTA	1525	c	THR	203	-7.020	31.183	46.875	1.00 38.82	1DIK1617
ATOM	1526	ŏ	THR	203	-7.475	32.212	47.370	1.00 40.38	1DIK1618
MOTA	1527	СB	THR	203	-6.010	29.334	48.243	1.00 41.33	1DIK1619
MOTA	1528		THR	203	-6.318	28.139	48.976	1.00 42.61	1DIK1620
ATOM	1529		THR	203	-5.469	30.397	49.192	1.00 37.55	1DIK1621
MOTA	1530	N	VAL	204	-6.291	31.170	45.762	1.00 37.98	1DIK1622
ATOM	1531	CA	VAL	204	-5.953	32.386	45.021	1.00 36.13	1DIK1623
MOTA	1532	c	VAL	204	-7.209	33.048	44.454	1.00 34.77	1DIK1624
ATOM	1533	ŏ	VAL	204	-7.372	34.265	44.544	1.00 35.20	1DIK1625
ATOM	1534	CB	VAL	204	-4.939	32.070	43.888	1.00 36.51	1DIK1626
ATOM	1535		VAL	204	-4.675	33.291	43.036	1.00 33.64	1DIX1627
ATOM	1536		VAL	204	-3.638	31.577	44.496	1.00 30.96	1DIK1628
MOTA	1537	N	GLU	205	-8.101	32.248	43.885	1.00 34.36	1DIK1629
	-								

MOTA	1538	CA	GLU	205	-9.343	32.778	43.331	1.00 36.22	1DIK1630
MOTA	1539	C	GLU	205	-10.125	33.501	44.414	1.00 36.92	1DIK1631
ATOM	1540	ō	GLU	205	-10.662	34.580	44.182	1.00 40.62	1DIK1632
MOTA	1541	ČВ	GLU	205	-10.201	31.655	42.750	1.00 33.02	
									1DIK1633
MOTA	1542	CG	GLU	205	-11.607	32.094	42.365		1DIK1634
MOTA	1543	CD	GLU	205	-12.312	31.094	41.454	1.00 46.03	1DIK1635
MOTA	1544		GLU	205	-12.076	29.875	41.597	1.00 48.84	1DIK1636
ATOM	1545	0E2	CLU	205	-13.105	31.526	40.585	1.00 53.38	1DIK1637
ATOM	1546	N	ALA	206	-10.179	32.897	45.597	1.00 39.03	1DIK1638
MOTA	1547	CA	ALA	206	-10.898	33.464	46.731	1.00 37.04	1DIK1639
MOTA	1548	C	ALA	206	-10.262	34.787	47.160	1.00 36.03	1DIK1640
MOTA	1549	ŏ	ALA	206	-10.954	35.803	47.316	1.00 32.23	1DIK1641
	1550	СВ		206	-10.909				
MOTA			ALA			32.472	47.891	1.00 32.31	1DIK1642
MOTA	1551	N	ASN	207	-8.946	34.774	47.335	1.00 35.44	1DIK1643
MOTA	1552	CA	ASN	207	-B.231	35.971	47.754	1.00 40.04	1DIK1644
MOTA	1553	С	ASN	207	-8.484	37.150	46.B36	1.00 39.71	1DIK1645
MOTA	1554	0	ASN	207	-8.838	38.235	47.307	1.00 42.35	1DIX1646
MOTA	1555	CB	ASN	207	-6.716	35.722	47.841	1.00 43.98	1DIK1647
MOTA	1556	CG	ASN	207	-6.331	34.791	48.992	1.00 48.43	1DIK1648
ATOM	1557	OD1		207	-7.115	34.557	49.922	1.00 46.90	1DIK1649
ATOM	1558	ND2		207	-5.111	34.252	48.930	1.00 50.65	1DIK1650
		N	PHE	208					
ATOM	1559				-8.318	36.946	45.531	1.00 37.95	1D1K1651
ATOM	1560	CA	PHE	208	-8.499	38.044	44.591	1.00 34.08	1DIK1652
MOTA	1561	C	PHE	208	-9.925,		44.400	1.00 32.61	1DIK1653
MOTA	1562	0	PHE	206	-10.156	39.739	44.401	1.00 32.67	1DIK1654
ATOM	1563	CB	PHE	208	-7.878	37.726	43.229	1.00 32.46	1DIK1655
ATOM	1564	CG	PHE	208	+7.841	38.915	42.287	1.00 32.4B	1DIK1656
ATOM	1565	CD1	PHE	208	~6.951	39.966	42.506	1.00 30.74	1DIK1657
ATOM	1566	CD2		208	-8.713	38.991	41.193	1.00 28.48	1DIK1658
MOTA	1567	CEL		208	-6.929	41.081	41.650	1.00 29.80	1DIK1659
ATOM	1568		PHE	208	-8.700	40.090	40.339	1.00 26.94	1DIK1660
		CZ	PHE	208	-7.805	41.140			
MOTA	1569						40.568	1.00 30.80	101K1661
MOTA	1570	N	THR	209	-10.887	37.620	44.238	1.00 31.39	1DIK1662
ATOM	1571	CA	THR	209	-12.259	30.074	44.026	1.00 33.60	1DIK1663
MOTA	1572	С	THR	209	-12.678	38.987	45.171	1.00 34.71	1DIK1664
ATOM	1573	0	THR	209	-13.415	39.954	44.963	1.00 36.94	1DIK1665
ATOM	1574	CB	THR	209	-13.280	36.904	43.844	1.00 32.70	1DIK1666
ATOM	1575	OG1		209	-13.295	36.072	45.004	1.00 36.54	1DIK1667
ATOM	1576	CG2	THR	209	-12.919	36.057	42.631	1.00 31.98	1DIK1668
ATOM	1577	N	ALA	210	-12.193	38.693	46.376	1.00 37.10	1DIK1669
	1578	ČA	ALA	210	-12.504			1.00 37.69	
MOTA						39.505	47.557		1DIK1670
MOTA	1579	c	ALA	210	-12.126	40.977	47.342	1.00 39.15	1DIK1671
MOTA	1580	0_	ALA	210	-12.801	41.876	47.849	1.00 42.92	1DIK1672
MOTA	1581	CB	ALA	210	-11.781	38.954	48.770	1.00 31.71	1DIK1673
MOTA	1582	N	THR	211	-11.067	41.222	46.576	1.00 36.88	1DIK1674
ATOM	1583	CA	THR	211	-10.610	42.581	46.310	1.00 36.47	1DIK1675
ATOM	1584	С	THR	211	-11.462	43.431	45.341	1.00 35.57	1DIK1676
MOTA	1585	0	THR	211	-11.188	44.629	45.192	1.00 37.01	1DIK1677
ATOM	1586	CB	THR	211	-9.170	42.583	45.769	1.00 37.77	1DIK1678
ATOM	1587	OG1		211	-9.190	42.206	44.388	1.00 40.97	1DIK1679
ATOM	1588	CGZ	THR	211	-8.297	41.590	46.537	1.00 35.34	1DIK1680
	1589			212					
MOTA		N	PHE		-12.473	42.858	44.683	1.00 29.14	1DIK1681
MOTA	1590	CA	PHE	212	-13.280	43.659	43.749	1.00 24.90	1DIK1682
ATOM	1591	C	PHE	212	-14.736	43.224	43.559	1.00 27.12	1DIK1683
MOTA	1592	0	PHE	212	-15.577	44.041	43.190	1.00 31.27	1DIK1684
MOTA	1593	CB	PHE	212	-12.583	43.755	42.371	1.00 25.16	1DIK1685
MOTA	1594	ÇG	PHE	212	-12.772	42.534	41.491	1.00 26.99	1DIK1686
ATOM	1595	CD1	PHE	212	-12.017	41.382	41.689	1.00 24.61	1DIK1687
ATOM	1596	CD2	PHE	212	-13.724	42.538	40.469	1.00 29.36	1DIK1688
ATOM	1597	CEL	PHE	212	-12.213	40.252	40.883	1.00 26.98	1DIK1689
ATOM	1598		PHE	212	-13.926	41.417	39.661	1.00 23.41	1DIK1690
ATOM	1599	cz	PHE	212	-13.170	40.273	39.869	1.00 24.28	1DIK1691
ATOM	1600	N	VAL	213	-15.045	41.954	43.798	1.00 26.22	1DIK1692
MOTA	1601	CA	VAL	213	-16.414	41.458	43.637	1.00 26.85	1DIK1693
ATOM									
ATOM	1602	c	VAL	213	-17.424	41.996	44.676	1.00 31.61	1DIK1694
MOTA	1603	0_	VAL	213	-18.554	42.341	44.322	1.00 30.84	1DIK1695
MOTA	1604	CB	VAL	213	-16.449	39.905	43.611	1.00 22.75	1DIK1696
MOTA	1605	CGI	VAL	213	-17.854	39.405	43.418	1.00 16.76	1DIK1697
MOTA	1606	CG2		213	-15.592	39.403	42.489	1.00 20.78	1DIK1698
ATOM	1607	N	PRO	214	-17.041	42.076	45.966	1.00 33.45	1DIK1699
ATOM	1608	CA	PRO	214	-17.969	42.585	46.989	1.00 33.40	1DIK1700
ATOM	1609	Ċ	PRO	214	-18.707	43.889	46.624	1.00 31.74	101X1701
ATOM	1610	ŏ	PRO	214	-19.922	43.978	46.813	1.00 34.40	1DIX1702
ATOM	1611	СB	PRO	214	-17.067	42.749	48.207	1.00 36.14	1DIK1703
	1613								
ATOM	1612	CG	PRO	214	-16.114	41.600	48.040	1.00 37.34	1DIX1704
ATOM	1613	CD	PRO	214	-15.753	41.702	46.578	1.00 34.24	101K1705
ATOM	1614	N	SER	215	-17.992	44.887	46.103	1.00 29.66	1DIK1706
MOTA	1615	CA	SER	215	-18.619	46.154	45.698	1.00 31.11	1DIK1707
HOTA	1616	С	SER	215	-19.661	45.910	44.615	1.00 30.62	1DIX1708
MOTA	1617	ō	SER	215	-20.767	46.451	44.671	1.00 29.20	10IK1709
ATOM	1618	ČВ	SER	215	-17.584	47.123	45.136	1.00 33.71	101K1710
ATOM	1619	OG.	SER	215	-16.463	47.219	45.991	1.00 47.07	10181711
ATOM	1620	N	ILE		-19.297	45.093	43.991	1.00 29.96	
				216		44.757		1 00 27 00	1DIK1712
ATOM	1621	CY	ILE	216	-20.199	44.757	42.529	1.00 27.85	101K1713
MOTA	1622	С	ILE	216	-21.446	44.086	43.104	1.00 29.12	1DIK1714

MOTA	1623	0	ILE	216	-22.578	44.429	42.734	1.00 28.40	101X1715
MOTA	1624	CB :	ILE	216	-19.532	43.797	41.512	1.00 24.43	1DIX1716
MOTA	1625	CG1 1	ILE	216	-18.194	44.372	41.032	1.00 25.18	1DIK1717
MOTA	1626		ILE	216	-20.446	43.596	40.334	1.00 24.08	1DIX1718
ATOM	1627		ILE	216	-17.423	43.463	40.073	1.00 19.59	1DIX1719
ATOM	1628	N A	ARG	217	-21.231	43.136	44.016	1.00 32.27	1DIX1720
ATOM	1629		ARG	217	-22.326	42.415	44.661	1.00 33.05	1DIK1721
ATOM	1630		ARG	217	-23.283	43.390	45.348	1.00 34.41	1DIK1722
ATOM	1631		ARG	217	-24.508	43.263	45.220	1.00 34.77	1DIK1723
ATOM	1632		ARG	217	-21.798	41.415	45.689	1.00 32.26	1DIK1724
MOTA	1633		ARG	217	-22.910	40.737	46.468	1.00 28.72	101K1725
MOTA	1634		ARG	217	-22.379	39.772	47.495	1.00 33.69	101K1726
ATOM	1635		ARG	217	-21.418	40.352	48.438	1.00 37.21	101K1727
MOTA	1636		ARG	217	-21.677	41.336	49.303	1.00 38.84	101K1728
MOTA	1637	NH1		217	-22.879	41.908	49.355	1.00 34.37	1DIK1729
ATOM	1638		ARG	217	-20.713	41.754	50.120	1.00 35.90	1DIK1730
ATOM	1639		GLN	218	-22.729	44.359	46.073	1.00 32.95	1DIK1731
ATOM	1640		GLN	218	-23.562	45.352	46.749	1.00 36.19	1DIK1732
ATOM	1641		GLN	218	-24.392	46.172	45.763	1.00 36.45	1DIK1733
ATOM	1642		GLN	218	-25.565	46.450	46.026	1.00 36.62	101K1734
MOTA	1643		GLN	218	-22.715	46.275	47.617	1.00 37.01	1DIX1735
ATOM	1644		GLN	218	-22.118	45.574	48.819	1.00 42.03	1D1K1736
ATOM	1645		GLN	218	-21.371	46.519	49.727	1.00 44.82	1DIX1737
ATOM	1646	OE1		218	-21.019	47.631	49.335	1.00 47.97	1DIX1738
ATOM	1647		GLN	218	-21.123	46.083	50.955	1.00 49.64	1DIK1739
ATOM	1648		ARG	219	-23.799	46.548	44.629	1.00 34.39	1DIK1740
ATOM	1649		ARG	219	-24.529	47.313	43.624	1.00 31.62	1DIK1741
MOTA	1650		ARG	219	-25.691	46.487	43.091	1.00 33.49	1DIK1742
MOTA	1651		ARG	219	-26.813	46.984	42.982	1.00 34.34	1DIK1742
ATOM	1652		ARG	219	-23.618	47.722	42.470	1.00 29.81	
ATOM	1653		ARG	219	-24.290	48.626	41.446	1.00 27.77	1DIK1744 1DIK1745
ATOM	1654		ARG	219	-23.291	49.121	40.410	1.00 28.23	1DIK1746
ATOM	1655		ARG	219	~22.904	48.071	39.462	1.00 27.67	1DIX1747
ATOM	1656		ARG	219	-21.656	47.650	39.254	1.00 29.17	1DIX1748
MOTA	1657		ARG	219	-20.638		39.933	1.00 21.50	10IK1749
ATOM	1658		ARG	219	-21.423	48.169			1DIK1750
	1659		LEU	220		46.698	38.360		10181751
MOTA MOTA	1660		LEU	220	-25.437 -26.504	45.223 44.377	42.765	1.00 32.50 1.00 33.49	101K1752
ATOM	1661		LEU	220	-27.609		42.243 43.260	1.00 33.49 1.00 32.41	101K1753
ATOM	1662		LEU	220	-28.790	44.104		1.00 29.58	1DIK1754
ATOM	1663		LEU	220	-25.948	44.123 43.043	42.901 41.727	1.00 34.41	101K1755
ATOM	1664		LEU	220	-25.043	43.081	40.494	1.00 36.51	1DIX1756
ATOM	1665	CD1		220	-24.636	41.657	40.138	1.00 35.97	101K1757
MOTA	1666	CD2		220	-25.758	43.753	39.331	1.00 27.80	1DIK1758
ATOM	1667		GLU	221	-27.233	43.848	44.517	1.00 35.98	10IK1759
MOTA	1668		GLU	221	-28.213	43.560	45.576	1.00 38.20	1DIK1760
ATOM	1669		GLU	221	-29.100	44.771	45.795	1.00 39.87	1DIK1761
ATOM	1670		GLU	221	-30.302	44.646	46.042	1.00 40.20	1DIK1762
MOTA	1671		GLU	221	-27.519	43.179	46.881	1.00 35.73	1DIK1763
ATOM	1672		GLU	221	-26.800	41.848	46.816	1.00 39.22	1DIK1764
ATOM	1673		GLU	221	-26.340	41.346	48.176	1.00 42.91	1DIK1765
MOTA	1674	OE1		221	-25.555	42.054	48.861	1.00 43.49	1DIK1766
ATOM	1675	OE2		221	-26.770	40.234	48.557	1.00 41.59	1DIK1767
ATOM	1676		ASN	222	-28.486	45.943	45.689	1.00 41.49	1DIK1768
ATOM	1677		ASN	222	-29.182	47.208	45.841	1.00 45.54	1DIX1769
ATOM	1678		ASN	222	-30.139	47.515	44.672	1.00 43.33	1DIX1770
ATOM	1679		ASN	222	-31.257	47.971	44.903	1.00 45.33	1DIK1771
ATOM	1680		ASN	222	-28.158	48.329	46.017	1.00 54.00	1DIK1772
ATOM	1681		ASN	222	-28.797	49.701	46.091	1.00 62.65	1DIX1773
ATOM	1682		ASN	222	-28.256	50.675	45.558	1.00 68.49	1DIK1774
ATOM	1683		ASN	222	-29.951	49.793	46.752	1.00 66.30	10IK1775
MOTA	1684	N	ASP	223	-29.715	47.268	43.433	1.00 41.09	1DIK1776
MOTA	1685	CA	ASP	223	-30.562	47.521	42.256	1.00 37.20	1DIK1777
MOTA	1686		ASP	223	-31.655	46.482	42.022	1.00 38.11	10IK1778
ATOM	1687	0	ASP	223	-32.712	46.809	41.482	1.00 39.42	1DIK1779
MOTA	1688	ĊВ	ASP	223	-29.717	47.636	40.990	1.00 35.50	1DIK1780
MOTA	1689	CG	ASP	223	-28.772	48.821	41.017	1.00 38.50	1DIK1781
MOTA	1690		ASP	223	-28.977	49.753	41.826	1.00 40.58	1DIK1782
MOTA	1691		ASP	223	-27.811	48.827	40.220	1.00 41.14	1DIK1783
MOTA	1692	N	LEU	224	-31.412	45.231	42.405	1.00 40.35	1DIK1784
MOTA	1693	CA	LEU	224	-32.427	44.188	42.232	1.00 40.35 1.00 45.31	1DIK1785
MOTA	1694	C	LEU	224	-32.971	43.798	43.604	1.00 49.10	1DIK1786
MOTA	1695	ō	LEU	224	-32.732	42.685	44.077	1.00 52.62	1DIK1787
MOTA	1696	ČВ	LEU	224	-31.835	42.956	41.543	1.00 42.30	1DIK1788
ATOM	1697	CG	LEU	224	-31.389	43.069	40.086	1.00 40.02	1DIK1789
ATOM	1698	CD1		224		41.925	39.770	1.00 37.89	101K1790
ATOM	1699	CDZ		224	-30.443 -32.594	43.046	39.173	1.00 37.37	1DIK1791
MOTA	1700	N	SER	225	-33.701	44.721	44.232	1.00 50.58	1DIK1792
ATOH	1701	CA	SER	225	-34.283	44.522	45.564	1.00 49.16	101X1793
ATOH	1702	c c	SER	225	-34.977	43.185	45.737	1.00 45.74	1DIX1794
ATOM	1703	ō	SER	225	-35.844	42.816	44.944	1.00 45.28	1DIK1795
ATOM	1704	CB	SER	225	-35.280	45.639	45.880	1.00 51.40	1DIX1796
ATOM	1705	ÖĞ	SER	225	-34.660	46.909	45.793	1.00 58.48	1DIK1797
MOTA	1706	N	GLY	226	-34.591	42.465	46.781	1.00 42.17	1DIX1798
ATOM	1707	CA	GLY	226	-35.196	42.465 41.173	47.040	1.00 43.89	1DIK1799

ATOM 1710 C. V. 226 -34.461 38.900 47.051 1.00 47.89 10X.88 ATOM 1710 C. V. V. 227 -33.119 40.422 45.103 1.00 42.94 10X.88 ATOM 1712 C. V. V. 227 -34.085 39.465 45.675 1.00 41.75 10X.88 ATOM 1713 C. V. V. 227 -34.085 39.465 45.675 1.00 41.75 10X.88 ATOM 1713 C. V. V. 227 -31.076 39.465 45.675 1.00 41.75 10X.88 ATOM 1715 C. V. V. 227 -31.076 39.750 44.252 1.00 45.31 10X.88 ATOM 1715 C. V. V. 227 -31.076 39.750 44.252 1.00 45.31 10X.88 ATOM 1715 C. V. V. 227 -31.076 39.750 44.252 1.00 45.31 10X.88 ATOM 1715 C. V. V. 227 -31.076 39.750 44.252 1.00 45.31 10X.88 ATOM 1715 C. V. V. 227 -31.076 39.167 31.167 31.377 1.00 44.28 10X.88 ATOM 1715 C. V. V. 227 -31.076 39.167 31.167 31.377 1.00 44.28 10X.88 ATOM 1715 C. V. V. 227 -31.076 39.167 31.167 31.377 1.00 44.28 10X.88 ATOM 1712 C. V.										
ATOM 1709 0 CLY 226 -34.461 38.900 77.051 1.00 47.89 10K18 ATOM 1711 N VAL 227 -32.109 0.422 46.108 1.00 42.94 10K18 ATOM 1713 0 VAL 227 -32.108 39.465 46.108 1.00 42.94 10K18 ATOM 1713 0 VAL 227 -30.108 39.465 46.108 1.00 42.95 10K18 ATOM 1713 0 VAL 227 -30.108 39.465 47.135 1.00 41.57 10K18 ATOM 1714 CB VAL 227 -30.1676 39.750 47.135 1.00 41.57 10K18 ATOM 1715 CC1 VAL 227 -30.1676 39.750 47.135 1.00 44.53 10K18 ATOM 1715 CC2 VAL 227 -30.1676 39.750 47.135 1.00 44.53 10K18 ATOM 1715 CC2 VAL 227 -30.1676 39.750 47.135 1.00 44.68 10K18 ATOM 1715 CC TARR 228 -28.234 17.336 46.235 1.00 39.67 10K18 ATOM 1715 C THR 228 -28.234 17.336 46.235 1.00 39.67 10K18 ATOM 1715 C THR 228 -28.234 17.336 46.235 1.00 37.22 10K18 ATOM 1712 C THR 228 -29.412 37.336 46.235 1.00 37.22 10K18 ATOM 1712 C THR 228 -29.412 37.336 46.235 1.00 39.67 10K18 ATOM 1712 C THR 228 -29.412 37.336 46.235 1.00 39.67 10K18 ATOM 1712 C THR 228 -29.412 37.336 46.235 1.00 39.67 10K18 ATOM 1712 C THR 228 -29.412 37.336 46.235 1.00 39.63 10K18 ATOM 1712 C THR 228 -29.412 37.336 46.235 1.00 39.63 10K18 ATOM 1712 C T THR 228 -29.412 37.336 46.235 1.00 39.63 10K18 ATOM 1712 C T T T T T T T T T T T T T T T T T T	ATOM	1708	С	GLY	226	-34.226	40.060	46.731	1.00 44.37	1DIK1800
ATOM 1710 N VAL 227 -31.119 (0.422 46.108 1.00 42.94 DEKIS ATOM 1713 CA VAL 227 -30.08 39.65 45.727 1.00 41.07 DEKIS ATOM 1713 CA VAL 227 -30.08 39.65 45.727 1.00 41.07 DEKIS ATOM 1713 CA VAL 227 -30.08 39.65 45.727 1.00 41.57 31 DEKIS ATOM 1713 CA VAL 227 -30.08 39.65 47.7135 1.00 41.57 31 DEKIS ATOM 1715 CC2 VAL 227 -30.165 30.500 47.135 1.00 41.57 31 DEKIS ATOM 1715 CC2 VAL 227 -30.166 39.167 41.947 1.00 44.28 DEKIS ATOM 1715 CC2 VAL 227 -30.116 39.167 41.947 1.00 44.28 DEKIS ATOM 1715 CC2 VAL 227 -30.116 39.167 41.947 1.00 44.28 DEKIS ATOM 1715 CC2 VAL 227 -32.121 39.189 41.297 1.00 44.28 DEKIS ATOM 1718 CC2 VAL 228 -29.166 89.159 47.785 1.00 39.67 DEKIS ATOM 1718 CC2 VAL 228 -29.166 89.159 47.785 1.00 39.67 DEKIS ATOM 1712 CC2 VAL 228 -229.166 89.159 47.785 1.00 39.67 DEKIS ATOM 1712 CC2 VAL 229 -26.679 36.394 46.225 1.00 31.46 DEKIS ATOM 1712 CC2 VAL 229 -26.679 38.179 46.225 1.00 31.46 DEKIS ATOM 1720 CC2 VAL 229 -26.595 37.689 46.862 1.00 34.36 DEKIS ATOM 1723 CC2 VAL 229 -26.595 37.689 46.862 1.00 35.85 DEKIS ATOM 1725 CC LEU 229 -25.664 37.848 44.799 1.00 31.569 DEKIS ATOM 1725 CC LEU 229 -25.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1725 CC LEU 229 -25.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.679 38.204 31.855 1.00 31.60 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.799 1.00 35.69 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 44.479 1.00 34.266 DEKIS ATOM 1720 CC LEU 229 -26.664 37.848 46.40 1.00 36.60 DEKIS ATOM 1720 CC TARR 230 -26.790 BEKIS ATOM 1720 CC TARR 230 -26.790 BEKIS ATOM 1720 CC TARR 230 -26.790 BEK										
ATOM 1711 C A VAL 227 -32.108 39.455 45.727 1.00 43.07 107K18 ATOM 1712 C VAL 227 -30.903 19.491 46.570 1.00 41.73 107K18 ATOM 1714 C VAL 227 -30.406 40.550 47.135 1.00 41.73 107K18 ATOM 1715 CG1 VAL 227 -30.466 40.550 47.135 1.00 41.53 107K18 ATOM 1716 CG2 VAL 227 -30.216 40.550 47.135 1.00 41.53 107K18 ATOM 1717 N THR 228 -30.316 19.167 41.397 1.00 44.62 107K18 ATOM 1717 N THR 228 -30.371 18.307 46.561 1.00 40.681 107K18 ATOM 1717 C THR 228 -22.816 37.138 1.07 46.60 1.00 37.67 107K18 ATOM 1717 C THR 228 -22.816 37.138 1.07 46.60 1.00 37.67 107K18 ATOM 1717 C THR 228 -22.816 37.138 1.07 46.60 1.00 37.67 107K18 ATOM 1721 C B THR 228 -22.816 37.138 1.07 46.60 1.00 37.67 107K18 ATOM 1721 C B THR 228 -22.816 37.138 1.07 46.60 1.00 37.67 107K18 ATOM 1722 C C THR 228 -22.816 37.138 1.07 46.60 1.00 37.67 107K18 ATOM 1721 C B THR 228 -22.816 37.138 1.07 46.60 1.00 37.67 107K18 ATOM 1722 C C THR 228 -22.816 37.138 1.07 46.60 1.00 41.61 107K18 ATOM 1724 C L LU 229 -24.60 37.76 39 46.60 1.00 37.61 107K18 ATOM 1725 C A LEU 229 -24.60 37.76 39 46.80 1.00 43.61 107K18 ATOM 1726 C LEU 229 -24.60 37.76 39 46.80 1.00 37.62 107K18 ATOM 1727 C A LEU 229 -24.60 37.76 39 46.80 1.00 37.62 107K18 ATOM 1727 C A LEU 229 -24.60 37.76 39 46.80 1.00 37.77 107K18 ATOM 1729 C C LEU 229 -24.60 37.70 37.60 47.63 1.00 37.70 107K18 ATOM 1731 C C LEU 229 -24.60 37.70 37.80 47.80 1.00 37.70 107K18 ATOM 1731 C C LEU 229 -24.60 37.80 37.80 47.70 1.00 37.70 107K18 ATOM 1731 C C LEU 229 -24.60 37.80 37.80 47.70 1.00 37.70 107K18 ATOM 1731 C C LEU 229 -24.60 37.80 37.80 47.70 1.00 37.70 107K18 ATOM 1731 C C LEU 229 -24.60 37.80 37.80 47.70 1.00 37.70 107K18 ATOM 1731 C C LEU 229 -24.60 37.80 37.80 47.70 1.00 37.70 107K18 ATOM 1731 C C LEU 229 -24.60 37.80 37.80 47.70 1.00 37.70 107K18 ATOM 1731 C C LU 229 -24.60 37.80 37.80 47.70 1.00 37.70 107K18 ATOM 1731 C C LU 229 -24.60 37.80 37.80 37.70 107K18 ATOM 1731 C C LU 229 -24.60 37.80 37.80 37.70 10.70 37.70 107K18 ATOM 1731 C C LU 229 -24.60 37.70 37.80 37.70 10.70 37.70 10.70 10.70 10.70 10.70 10.70										
ATOM 1712 C VAL 227 -30.903 39.493 46.670 1.00 41.79 107K18 ATOM 1713 C VAL 227 -31.085 40.560 47.353 1.00 41.75 107K18 ATOM 1715 C VAL 227 -31.076 39.750 41.253 1.00 42.55 1.00 48.75 107K18 ATOM 1716 CG2 VAL 227 -31.076 39.750 41.253 1.00 44.62 107K18 ATOM 1716 CG2 VAL 227 -31.076 39.750 41.253 1.00 40.681 107K18 ATOM 1718 C AT THR 228 -30.371 38.307 46.963 1.00 40.681 107K18 ATOM 1718 C AT THR 228 -32.166 38.159 47.855 1.00 39.66 107K18 ATOM 1718 C AT THR 228 -22.166 38.159 47.855 1.00 39.66 107K18 ATOM 1712 C GT THR 228 -22.166 38.159 47.858 1.00 39.46 107K18 ATOM 1721 C B THR 228 -22.91.66 37.39 46.963 1.00 41.63 107K18 ATOM 1722 C GG THR 228 -22.91.66 37.39 46.152 1.00 41.63 107K18 ATOM 1722 C GG THR 228 -22.91.90 36.116 48.867 1.00 44.81 107K18 ATOM 1723 C GG THR 228 -22.93 39.36 69.97 56.021 1.00 41.36 107K18 ATOM 1725 C L LUZ 229 -24.589 37.689 46.662 1.00 35.45 107K18 ATOM 1726 C L LUZ 229 -24.589 37.689 47.630 1.00 37.29 107K18 ATOM 1727 C C LUZ 229 -24.589 37.509 47.630 1.00 37.29 107K18 ATOM 1728 C B LEU 229 -24.589 37.509 47.630 1.00 37.29 107K18 ATOM 1730 C D LEU 229 -24.589 38.209 47.630 1.00 37.29 107K18 ATOM 1731 CD LEU 229 -24.593 37.509 47.630 1.00 37.29 107K18 ATOM 1730 C D LEU 229 -24.593 37.509 47.630 1.00 37.29 107K18 ATOM 1731 CD LEU 229 -24.593 37.509 47.630 1.00 37.29 107K18 ATOM 1730 C D LEU 229 -24.593 37.509 47.630 1.00 37.29 107K18 ATOM 1730 C D LEU 229 -24.593 37.509 47.630 1.00 37.29 107K18 ATOM 1731 CD LEU 229 -24.593 37.509 47.630 1.00 37.29 107K18 ATOM 1730 C D LEU 229 -24.593 37.509 47.630 1.00 37.29 107K18 ATOM 1730 C D LEU 229 -24.593 37.509 47.630 1.00 37.29 107K18 ATOM 1730 C D LEU 229 -24.593 37.509 47.630 1.00 37.29 107K18 ATOM 1730 C D LEU 229 -24.593 37.509 47.630 1.00 37.90 107K18 ATOM 1730 C D LEU 229 -24.593 37.594 47.400 1.00 31.91 107K18 ATOM 1730 C D LEU 229 -24.593 37.599 47.630 1.00 37.91 107K18 ATOM 1730 C D LEU 229 -24.593 37.599 47.630 1.00 37.91 107K18 ATOM 1730 C D THR 230 -24.611 37.599 1.00 37.91 1007K18 ATOM 1730 C D THR 230 -24.611 37.599 1.00 37.91 1										1DIK1803
ATOM 1714 CB VAL 227 -30.485 40.560 47.135 1.00 41.57 1DIKIB ATOM 1714 CB VAL 227 -30.1676 39.750 41.252 1.00 45.31 1DIKIB ATOM 1716 CG VAL 227 -30.1676 39.167 43.447 1.00 44.22 1DIKIB ATOM 1716 CG VAL 227 -30.116 39.167 43.447 1.00 44.22 1DIKIB ATOM 1716 CG VAL 227 -30.116 39.167 43.447 1.00 44.22 1DIKIB ATOM 1716 CG VAL 227 -30.116 39.167 43.447 1.00 44.22 1DIKIB ATOM 1718 CA THR 228 -29.166 38.159 47.785 1.00 39.67 1DIKIB ATOM 1719 C THR 228 -29.166 38.159 47.785 1.00 39.67 1DIKIB ATOM 1720 OT THR 228 -28.547 37.316 46.893 1.00 37.22 1DIKIB ATOM 1720 OT THR 228 -28.547 37.316 46.893 1.00 37.22 1DIKIB ATOM 1720 CG THR 228 -28.547 36.394 46.235 1.00 31.46 1DIKIB ATOM 1720 CG THR 228 -28.547 36.394 46.235 1.00 31.46 1DIKIB ATOM 1722 CG THR 228 -30.319 38.177 50.021 1.00 43.36 1DIKIB ATOM 1722 CG THR 228 -30.319 38.177 50.021 1.00 43.36 1DIKIB ATOM 1725 CA LEU 229 -25.595 17.689 46.625 1.00 35.42 1DIKIB ATOM 1725 CA LEU 229 -25.695 17.689 46.022 1.00 35.80 1DIKIB ATOM 1725 CG LEU 229 -25.695 17.689 46.022 1.00 35.80 1DIKIB ATOM 1725 CG LEU 229 -25.696 37.848 44.799 1.00 35.69 1DIKIB ATOM 1726 CG LEU 229 -25.696 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.696 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD THR 230 -27.139 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD1 LEU 229 -25.698 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD THR 230 -27.139 37.848 44.799 1.00 35.69 1DIKIB ATOM 1730 CD THR 230 -27.139 37.849 44.799 1.00 35.69 1DIKIB ATOM 1730 CD THR 230										1DIK1804
ATOM 1715 CG1 VAL 227 -31.676 39.750 44.252 1.00 45.33 1DIKIS ATOM 1715 CG2 VAL 227 -31.276 39.750 44.252 1.00 45.33 1DIKIS ATOM 1715 CG2 VAL 227 -32.721 39.169 43.297 1.00 44.28 1DIKIS ATOM 1715 CG2 VAL 227 -32.721 39.169 43.297 1.00 44.28 1DIKIS ATOM 1715 CG1 VAL 228 -28.234 37.306 46.893 1.00 37.22 1DIKIS ATOM 1719 C THR 228 -28.234 37.306 46.893 1.00 37.22 1DIKIS ATOM 1720 C THR 228 -28.234 37.306 46.893 1.00 37.22 1DIKIS ATOM 1720 C THR 228 -28.679 36.394 46.255 1.00 33.46 1DIKIS ATOM 1721 CB THR 228 -29.167 36.394 46.251 1.00 41.63 1DIKIS ATOM 1721 CB THR 228 -29.412 37.396 45.262 1.00 36.42 1DIKIS ATOM 1721 CB THR 228 -29.412 37.396 45.262 1.00 36.42 1DIKIS ATOM 1721 CB THR 228 -29.412 37.396 46.862 1.00 36.42 1DIKIS ATOM 1725 CA LEU 229 -26.597 37.689 46.862 1.00 36.42 1DIKIS ATOM 1725 CA LEU 229 -26.597 37.689 46.862 1.00 36.42 1DIKIS ATOM 1726 C LEU 229 -26.597 37.689 46.862 1.00 36.42 1DIKIS ATOM 1726 C LEU 229 -26.597 37.689 46.862 1.00 36.42 1DIKIS ATOM 1726 C LEU 229 -26.797 37.689 46.771 1.00 36.00 1DIKIS ATOM 1726 C LEU 229 -26.797 37.689 46.771 1.00 36.00 1DIKIS ATOM 1726 C LEU 229 -26.797 37.689 46.771 1.00 36.00 1DIKIS ATOM 1729 CG LEU 229 -26.790 38.240 43.850 1.00 31.77 1DIKIS ATOM 1729 CG LEU 229 -26.790 38.240 43.850 1.00 31.77 1DIKIS ATOM 1730 CD1 LEU 229 -26.790 38.240 43.850 1.00 31.77 1DIKIS ATOM 1731 CD1 LEU 229 -26.790 38.240 43.850 1.00 31.77 1DIKIS ATOM 1731 CD1 LEU 229 -26.790 38.240 43.850 1.00 31.77 1DIKIS ATOM 1731 CD1 LEU 229 -26.790 38.240 43.850 1.00 31.77 1DIKIS ATOM 1731 CD1 LEU 229 -26.790 38.240 43.850 1.00 31.77 1DIKIS ATOM 1731 CD1 LEU 229 -26.254 39.233 42.860 1.00 32.31 1DIKIS ATOM 1731 CD1 LEU 229 -26.254 39.31 3.30 44 4.00 31.69 1DIKIS ATOM 1731 CD1 LEU 229 -27.313 37.30 44 44 1.00 31.69 1DIKIS ATOM 1731 CD1 LEU 229 -27.313 37.30 44 44 1.00 31.60 1DIKIS ATOM 1731 CD1 LEU 229 -27.313 37.30 44 44 1.00 31.60 1DIKIS ATOM 1731 CD1 LEU 229 -27.313 37.30 44 4.00 31.40 31.40 1DIKIS ATOM 1731 CD1 LEU 229 -27.313 37.30 44 4.00 31.40 31.40 1DIKIS ATOM 1731 CD1 LEU 229 -27.31										1DIK1805
ATOM 1715 CG1 VAL 227 -30.116 39.167 41.947 1.00 44.28 1DIK.8 ATOM 1716 CG2 VAL 227 -30.216 39.167 41.947 1.00 44.28 1DIK.8 ATOM 1716 CG2 VAL 227 -32.721 39.189 41.297 1.00 44.28 1DIK.8 ATOM 1719 C THR 228 -30.9716 39.199 46.235 1.00 49.65 1DIK.8 ATOM 1719 C THR 228 -28.214 77.136 46.895 1.00 31.46 1DIK.8 ATOM 1721 CB THR 228 -28.214 77.136 46.235 1.00 31.46 1DIK.8 ATOM 1721 CB THR 228 -28.214 77.136 46.235 1.00 31.46 1DIK.8 ATOM 1721 CB THR 228 -28.214 77.136 46.235 1.00 31.46 1DIK.8 ATOM 1721 CB THR 228 -29.412 77.689 46.225 1.00 31.46 1DIK.8 ATOM 1722 CB THR 228 -29.412 77.689 46.225 1.00 31.46 1DIK.8 ATOM 1723 CB THR 228 -29.412 77.689 46.225 1.00 36.42 1DIK.8 ATOM 1725 CA LEU 229 -25.991 36.988 46.022 1.00 36.42 1DIK.8 ATOM 1726 C LEU 229 -25.991 36.988 46.022 1.00 35.85 1DIK.8 ATOM 1726 C LEU 229 -24.589 56.735 46.739 1.00 35.85 1DIK.8 ATOM 1726 C LEU 229 -24.589 56.735 46.735 46.739 1.00 35.85 1DIK.8 ATOM 1726 C LEU 229 -24.589 56.730 48.735 46.739 1.00 35.29 1DIK.8 ATOM 1730 CD LEU 229 -26.594 39.231 42.860 1.00 31.79 1DIK.8 ATOM 1730 CD LEU 229 -26.595 39.20 40.41 1.00 10.35.29 1DIK.8 ATOM 1730 CD LEU 229 -26.595 39.20 40.41 1.00 32.31 1DIK.8 ATOM 1731 CD LEU 229 -26.595 39.20 40.41 1.00 32.31 1DIK.8 ATOM 1731 CD LEU 229 -26.595 39.20 40.41 1.00 32.31 1DIK.8 ATOM 1731 CD LEU 229 -26.595 39.20 40.41 1.00 32.68 1DIK.8 ATOM 1731 CD LEU 229 -26.595 39.20 40.41 1.00 32.60 1DIK.8 ATOM 1731 CD LEU 229 -26.595 39.20 40.41 1.00 32.60 1DIK.8 ATOM 1731 CD LEU 229 -26.595 39.20 40.41 1.00 32.60 1DIK.8 ATOM 1731 CD LEU 229 -26.595 39.20 40.41 1.00 32.60 1DIK.8 ATOM 1731 CD LEU 229 -26.595 39.20 40.41 1.00 32.60 1DIK.8 ATOM 1731 CD LEU 229 -26.595 30.50 30.40 30.			CB							1DIK1806
ATOM 1716 CC2 VAL 227 -32.721 39.189 43.297 1.00 44.62 1DIXES ATOM 1717 N THR 228 -30.371 83.07 45.561 1.00 40.63 1DIXES ATOM 1718 CA THR 228 -23.071 8.00 74.62 1.00 37.67 1DIXES ATOM 1719 CA THR 228 -23.071 8.00 74.62 1.00 37.67 1DIXES ATOM 1720 0 THR 228 -22.667 31.152 1.00 37.67 1DIXES ATOM 1721 CB THR 228 -29.412 37.398 49.124 1.00 41.63 1DIXES ATOM 1722 CGI THR 228 -29.990 36.116 49.867 1.00 44.83 1DIXES ATOM 1722 CGI THR 228 -29.990 36.116 49.867 1.00 44.83 1DIXES ATOM 1725 CGI THR 228 -30.139 38.177 50.021 1.00 43.36 1DIXES ATOM 1725 CG THR 228 -30.139 38.177 50.021 1.00 43.36 1DIXES ATOM 1725 CG THR 228 -30.139 38.177 50.021 1.00 43.36 1DIXES ATOM 1725 CA LEU 229 -24.699 16.735 46.771 1.00 43.36 1DIXES ATOM 1725 CA LEU 229 -24.699 16.735 46.771 1.00 43.37 1DIXES ATOM 1726 CA LEU 229 -24.699 16.735 46.771 1.00 36.00 1DIXES ATOM 1726 CA LEU 229 -24.502 17.520 47.60 1.00 37.29 1DIXES ATOM 1728 CB LEU 229 -24.502 17.520 47.60 1.00 37.29 1DIXES ATOM 1728 CB LEU 229 -24.502 17.520 47.60 1.00 37.29 1DIXES ATOM 1728 CB LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1735 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1735 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1735 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 1DIXES ATOM 1735 CDI LEU 229 -27.334 37.						-30.316				1DIK1807
ATOM 1717 N THR 228 -30.371 38.307 46.963 1.00 40.83 1DIXES ATOM 1718 C A THR 228 -22.166 38.159 47.855 1.00 39.67 1DIXES ATOM 1718 C THR 228 -22.166 38.159 47.855 1.00 39.67 1DIXES ATOM 1718 C THR 228 -22.166 37.315 47.855 1.00 39.22 1DIXES ATOM 1721 CB THR 228 -22.916 37.356 46.895 1.00 37.22 1DIXES ATOM 1721 CB THR 228 -22.910 10.10 10.0							39.189			1DIK1808
ATOM 1718 CA THR 228 -29.166 38.159 47.785 1.00 39.67 1DIX.8 ATOM 1719 C THR 228 -28.234 37.1316 46.232 1.00 33.45 1DIX.8 ATOM 1721 CD THR 228 -28.240 37.316 46.232 1.00 33.45 1DIX.8 ATOM 1722 COI THR 228 -28.990 36.116 48.67 1.00 41.36 1DIX.8 ATOM 1721 COI THR 228 -28.990 36.116 48.67 1.00 41.36 1DIX.8 ATOM 1722 COI THR 228 -30.319 36.177 50.021 1.00 43.36 1DIX.8 ATOM 1724 N LUZ 229 -26.557 37.689 46.022 1.00 35.65 1DIX.8 ATOM 1725 CA LUZ 229 -26.595 37.689 46.022 1.00 35.65 1DIX.8 ATOM 1725 CA LUZ 229 -26.595 37.689 46.022 1.00 35.65 1DIX.8 ATOM 1725 CA LUZ 229 -24.580 47.86 47.700 1727 CA LUZ 229 -24.580 47.86 47.700 1728 CA LUZ 229 -26.790 38.240 43.85 1.00 35.69 1DIX.8 ATOM 1725 CA LUZ 229 -26.790 38.240 43.850 1.00 35.69 1DIX.8 ATOM 1730 CDI LUZ 229 -26.790 38.240 43.850 1.00 31.77 1DIX.8 ATOM 1730 CDI LUZ 229 -26.790 38.240 43.850 1.00 31.77 1DIX.8 ATOM 1731 CDI LUZ 229 -27.314 37.014 43.143 1.00 31.69 1DIX.8 ATOM 1731 CDI LUZ 229 -27.314 37.014 43.143 1.00 31.69 1DIX.8 ATOM 1731 CDI LUZ 229 -21.744 37.504 46.472 1.00 31.69 1DIX.8 ATOM 1731 CDI LUZ 229 -22.1743 37.504 46.472 1.00 31.69 1DIX.8 ATOM 1735 CD THR 230 -22.1743 35.595 6.003 1.00 32.31 1DIX.8 ATOM 1735 CD THR 230 -22.1743 35.595 6.003 1.00 31.69 1DIX.8 ATOM 1735 CD THR 230 -22.1743 35.595 6.003 1.00 31.69 1DIX.8 ATOM 1735 CD THR 230 -22.166 313.260 45.870 1.00 30.951 1DIX.8 ATOM 1735 CD THR 230 -22.166 313.260 45.870 1.00 30.951 1DIX.8 ATOM 1735 CD THR 230 -22.166 313.260 45.870 1.00 30.951 1DIX.8 ATOM 1735 CD THR 230 -22.166 313.260 45.870 1.00 30.951 1DIX.8 ATOM 1735 CD THR 230 -22.166 313.260 45.870 1.00 30.951 1DIX.8 ATOM 1736 CB THR 230 -22.166 313.260 45.870 1.00 30.951 1DIX.8 ATOM 1736 CB THR 230 -22.166 313.260 45.870 1.00 30.951 1DIX.8 ATOM 1736 CB THR 231 -19.186 36.301 41.227 1.00 43.11 1DIX.8 ATOM 1736 CB THR 231 -19.186 36.301 41.227 1.00 43.11 1DIX.8 ATOM 1736 CB THR 231 -19.186 36.301 41.227 1.00 43.11 1DIX.8 ATOM 1736 CB THR 231 -19.186 36.301 41.227 1.00 43.11 1DIX.8 ATOM 1736 CB THR 231 -19.186 36.301 41.227 1.00 43.11 1DIX.8		1717	N	THR	228	-30.371	38.307		1.00 40.83	1DIX1809
ATOM 1720 C THR 228 -28.234 37.336 46.893 1.00 37.22 1DIX.8 ATOM 1720 C THR 228 -28.679 36.394 46.295 1.00 33.46 1DIX.8 ATOM 1721 COL THR 228 -28.679 36.394 46.295 1.00 44.83 1DIX.8 ATOM 1722 COL THR 228 -28.979 36.116 48.867 1.00 44.83 1DIX.8 ATOM 1723 COL THR 228 -28.979 36.116 48.867 1.00 44.83 1DIX.8 ATOM 1723 COL THR 228 -28.979 37.689 46.862 1.00 36.42 1DIX.8 ATOM 1725 CA LEU 229 -26.957 37.689 46.862 1.00 36.42 1DIX.8 ATOM 1725 CA LEU 229 -26.957 37.689 46.802 1.00 35.85 1DIX.8 ATOM 1726 CA LEU 229 -26.957 37.689 46.802 1.00 35.85 1DIX.8 ATOM 1727 C LEU 229 -24.580 36.730 46.770 1.00 35.05 1DIX.8 ATOM 1727 C LEU 229 -26.564 37.808 46.709 1.00 35.05 1DIX.8 ATOM 1728 CB LEU 229 -26.564 37.808 46.710 1.00 35.05 1DIX.8 ATOM 1729 CG LEU 229 -26.564 37.808 47.799 1.00 35.65 1DIX.8 ATOM 1730 CD1 LEU 229 -26.254 39.230 42.860 1.00 31.77 1DIX.8 ATOM 1731 CD1 LEU 229 -26.254 39.233 42.860 1.00 31.77 1DIX.8 ATOM 1731 CD LEU 229 -26.254 39.233 42.860 1.00 31.77 1DIX.8 ATOM 1731 CD LEU 229 -27.314 37.014 43.143 1.00 31.689 1DIX.8 ATOM 1731 CD LEU 229 -27.314 37.014 43.143 1.00 31.689 1DIX.8 ATOM 1731 CD LEU 229 -22.119 35.599 46.091 1.00 34.69 1DIX.8 ATOM 1731 CD THR 230 -22.119 35.599 46.091 1.00 34.69 1DIX.8 ATOM 1731 CD THR 230 -22.119 35.599 46.091 1.00 34.69 1DIX.8 ATOM 1731 CD THR 230 -22.119 35.599 46.091 1.00 34.69 1DIX.8 ATOM 1731 CD THR 230 -22.119 35.599 46.091 1.00 34.69 1DIX.8 ATOM 1734 CD THR 230 -22.119 35.695 41.94 1.00 34.69 1DIX.8 ATOM 1734 CD THR 230 -22.119 35.695 41.94 1.00 34.69 1DIX.8 ATOM 1734 CD THR 230 -22.119 35.695 41.94 1.00 34.69 1DIX.8 ATOM 1734 CD THR 230 -22.119 35.695 41.94 1.00 34.69 1DIX.8 ATOM 1734 CD THR 230 -22.119 35.693 47.180 1.00 34.59 1DIX.8 ATOM 1735 CD THR 230 -22.119 35.693 41.40 34.90 1DIX.8 ATOM 1735 CD THR 230 -22.119 35.693 41.40 34.90 1DIX.8 ATOM 1736 CD THR 230 -22.119 35.693 41.40 34.90 1DIX.8 ATOM 1736 CD THR 230 -22.119 35.693 41.40 34.90 1DIX.8 ATOM 1735 CD THR 230 -22.119 35.693 41.40 34.90 1DIX.8 ATOM 1735 CD THR 230 -22.119 35.693 41.40 34.90 1DIX.8 ATOM 173		1718	CA	THR	228	-29.166			1.00 39.67	1DIK1810
ATOM 1720 O THR 228 -28.479 36.394 46.235 1.00 33.46 1DIX.8 ATOM 1721 CB THR 228 -28.412 37.195 49.124 1.00 41.63 1DIX.8 ATOM 1721 CB THR 228 -28.412 37.195 49.124 1.00 41.63 1DIX.8 ATOM 1721 CB THR 228 -28.412 37.195 49.124 1.00 41.63 1DIX.8 ATOM 1721 CB THR 228 -28.412 37.195 49.127 40.021 1.00 41.63 1DIX.8 ATOM 1722 NE LEU 229 -26.957 77.689 46.682 1.00 35.42 1DIX.8 ATOM 1725 CA LEU 229 -26.595 13.6.988 46.022 1.00 35.85 1DIX.8 ATOM 1726 C LEU 229 -24.689 36.735 46.711 1.00 35.85 1DIX.8 ATOM 1727 C LEU 229 -24.689 37.520 47.639 1.00 37.29 1DIX.8 ATOM 1729 CB LEU 229 -24.695 37.520 47.639 1.00 37.29 1DIX.8 ATOM 1729 CB LEU 229 -26.570 37.520 47.639 1.00 37.29 1DIX.8 ATOM 1729 CB LEU 229 -26.750 37.520 47.639 1.00 37.29 1DIX.8 ATOM 1729 CB LEU 229 -26.750 37.520 47.639 1.00 37.29 1DIX.8 ATOM 1730 CD LEU 229 -26.750 37.520 47.639 1.00 37.29 1DIX.8 ATOM 1730 CD LEU 229 -26.750 37.01 37.01 41.35 1.00 32.31 1DIX.8 ATOM 1731 CD LEU 229 -26.750 37.01 37.01 41.31 1.00 32.31 1DIX.8 ATOM 1731 CD LEU 229 -26.750 37.31 42.860 1.00 32.31 1DIX.8 ATOM 1732 CD THR 230 -22.719 37.554 47.641 1.00 32.31 1DIX.8 ATOM 1735 CD THR 230 -22.719 37.555 40.441 1.00 32.31 1DIX.8 ATOM 1735 CD THR 230 -22.719 37.555 40.944 1.00 32.31 1DIX.8 ATOM 1735 CD THR 230 -22.4663 31.260 45.870 1.00 30.93 1DIX.8 ATOM 1735 CD THR 230 -22.465 31.250 40.441 1.00 32.65 1DIX.8 ATOM 1735 CD THR 230 -22.455 31.554 40.441 1.00 32.65 1DIX.8 ATOM 1735 CD THR 230 -22.1552 31.554 47.941 1.00 32.25 1DIX.8 ATOM 1731 CD LEW 220 -22.1552 31.554 47.941 1.00 32.25 1DIX.8 ATOM 1734 CD ASP 231 -19.186 36.207 46.340 1.00 30.93 1DIX.8 ATOM 1735 CD THR 230 -22.1552 31.554 47.941 1.00 30.93 1DIX.8 ATOM 1734 CD ASP 231 -19.186 36.207 46.340 1.00 30.93 1DIX.8 ATOM 1734 CD ASP 231 -19.186 36.207 46.340 1.00 30.93 1DIX.8 ATOM 1734 CD ASP 231 -19.186 36.207 46.340 1.00 30.93 1DIX.8 ATOM 1734 CD ASP 231 -19.186 36.207 40.409 40.90 1DIX.8 ATOM 1735 CD THR 230 -22.1552 31.509 40.409 40.000 40.76 1DIX.8 ATOM 1734 CD ASP 231 -19.186 36.207 40.409 40.900 40.76 1DIX.8 ATOM 1734 CD ASP		1719	С		228			46.893	1.00 37.22	1DIX1811
ATOM 1722 OCI THR 228 -29.990 36.116 48.867 1.00 44.83 1DIX.B ATOM 1723 CGZ THR 228 -30.339 36.116 48.867 1.00 13.36 1DIX.B ATOM 1724 CA LEU 229 -26.597 37.688 46.862 1.00 36.42 1DIX.B ATOM 1727 CA LEU 229 -24.930 37.592 47.630 1.00 37.29 1DIX.B ATOM 1727 CA LEU 229 -24.930 37.592 47.630 1.00 37.29 1DIX.B ATOM 1728 CB LEU 229 -24.930 37.920 47.630 1.00 37.29 1DIX.B ATOM 1729 CG LEU 229 -26.564 37.848 44.799 1.00 37.29 1DIX.B ATOM 1729 CG LEU 229 -26.254 97.830 1.00 37.840 47.79 1.00 37.29 1DIX.B ATOM 1730 CD1 LEU 229 -26.254 97.231 42.860 1.00 31.77 1DIX.B ATOM 1731 CD1 LEU 229 -26.254 97.231 42.860 1.00 31.77 1DIX.B ATOM 1731 CD1 LEU 229 -27.314 37.014 43.143 1.00 31.688 1DIX.B ATOM 1731 CD1 LEU 229 -27.314 37.014 43.143 1.00 31.688 1DIX.B ATOM 1731 CD LEU 229 -27.314 37.014 43.143 1.00 31.688 1DIX.B ATOM 1735 C THR 230 -22.119 35.599 46.093 1.00 34.69 1DIX.B ATOM 1735 C THR 230 -22.119 35.599 46.093 1.00 34.69 1DIX.B ATOM 1735 C THR 230 -22.149 35.599 46.093 1.00 34.69 1DIX.B ATOM 1735 C THR 230 -22.466 33.838 47.178 1.00 34.69 1DIX.B ATOM 1735 C THR 230 -22.466 33.838 47.178 1.00 34.69 1DIX.B ATOM 1735 C THR 230 -22.466 33.838 47.188 1.00 34.69 1DIX.B ATOM 1736 CB THR 230 -22.466 33.838 47.178 1.00 34.65 1DIX.B ATOM 1736 CB THR 230 -22.466 33.838 47.178 1.00 34.65 1DIX.B ATOM 1736 CB THR 230 -22.466 33.838 47.178 1.00 34.65 1DIX.B ATOM 1736 CB THR 230 -22.463 33.13.50 45.870 1.00 34.65 1DIX.B ATOM 1736 CB THR 230 -22.463 33.13.50 45.870 1.00 34.56 1DIX.B ATOM 1736 CB THR 230 -22.463 33.13.50 45.870 1.00 34.56 1DIX.B ATOM 1736 CB THR 230 -22.463 33.13.50 45.870 1.00 34.56 1DIX.B ATOM 1736 CB THR 230 -22.463 33.13.50 43.484 1.00 40.76 1DIX.B ATOM 1740 CA ASP 231 -19.478 65.00 40.470 10.474 1DIX.B ATOM 1740 CA ASP 231 -19.478 65.00 40.470 10.474 1DIX.B ATOM 1740 CA ASP 231 -19.478 65.00 40.470 10.474 1DIX.B ATOM 1740 CA ASP 231 -19.478 65.00 40.470 10.474 1DIX.B ATOM 1740 CA ASP 231 -19.478 65.00 40.470 10.474 1DIX.B ATOM 1740 CA ASP 231 -19.478 65.00 40.470 10.474 1DIX.B ATOM 1746 CD 24 RP 231 -19.478 65.00 40	ATOM	1720					36.394	46.235		1DIK1812
ATOM 1723 CC2 THR 228 -30.339 38.177 50.021 1.00 43.36 IDIX.B ATOM 1725 CA LEU 229 -26.957 37.689 46.082 1.00 35.85 IDIX.B ATOM 1725 CA LEU 229 -24.589 36.780 46.710 1.00 35.85 IDIX.B ATOM 1728 CB LEU 229 -24.589 36.780 46.730 46.710 1.00 35.69 IDIX.B ATOM 1728 CB LEU 229 -24.589 38.240 43.850 1.00 35.67 IDIX.B ATOM 1728 CB LEU 229 -26.790 38.240 43.850 1.00 31.77 IDIX.B ATOM 1730 CD1 LEU 229 -26.790 38.240 43.850 1.00 31.77 IDIX.B ATOM 1731 CD2 LEU 229 -26.790 38.240 43.850 1.00 31.77 IDIX.B ATOM 1731 CD2 LEU 229 -26.354 39.233 42.860 1.00 32.31 IDIX.B ATOM 1731 CD2 LEU 229 -26.341 39.233 42.860 1.00 32.31 IDIX.B ATOM 1731 CD2 LEU 229 -26.7304 37.014 43.143 1.00 31.68 IDIX.B ATOM 1732 CD THR 230 -24.7011 35.643 46.447 1.00 33.91 IDIX.B ATOM 1735 CD THR 230 -24.7012 35.95 46.004 1.00 34.06 IDIX.B ATOM 1735 CD THR 230 -22.7463 33.260 45.870 1.00 34.06 IDIX.B ATOM 1735 CD THR 230 -22.466 33.838 47.444 1.00 34.26 IDIX.B ATOM 1735 CD THR 230 -22.466 33.838 47.444 1.00 34.26 IDIX.B ATOM 1737 CG1 THR 230 -22.466 33.838 47.444 1.00 34.26 IDIX.B ATOM 1737 CG1 THR 230 -22.466 33.838 47.444 1.00 34.26 IDIX.B ATOM 1737 CG1 THR 230 -22.466 33.260 45.870 1.00 30.93 IDIX.B ATOM 1730 CG2 THR 230 -22.466 33.260 45.870 1.00 30.93 IDIX.B ATOM 1730 CG2 THR 230 -22.552 31.51 47.97 1.00 30.93 IDIX.B ATOM 1740 CA ASP 2311 -20.493 36.131 46.494 1.00 37.66 IDIX.B ATOM 1740 CA ASP 2311 -20.493 36.131 46.494 1.00 37.66 IDIX.B ATOM 1740 CA ASP 2311 -19.478 36.807 44.252 1.00 49.54 IDIX.B ATOM 1741 CA ASP 2311 -19.478 36.807 44.252 1.00 49.54 IDIX.B ATOM 1744 CG ASP 2311 -19.478 36.807 47.221 1.00 40.99 IDIX.B ATOM 1745 CD ATOM 1745 CD ATOM 25.20 IDIX.B ATOM 25.20		1721				-29.412				1DIK1813
ATOM 1725 CA LEU 229 -26.957 37.689 46.862 1.00 36.42 IDIXIS ATOM 1725 CA LEU 229 -26.951 36.988 46.022 1.00 35.85 IDIXIS ATOM 1726 CA LEU 229 -26.254 37.584 46.771 1.00 36.00 IDIXIS ATOM 1727 CB LEU 229 -26.254 37.584 46.791 1.00 35.00 IDIXIS ATOM 1730 CD1 LEU 229 -26.254 37.584 46.791 1.00 35.00 IDIXIS ATOM 1730 CD1 LEU 229 -26.254 39.233 42.860 1.00 31.77 IDIXIS ATOM 1730 CD1 LEU 229 -26.254 39.233 42.860 1.00 31.77 IDIXIS ATOM 1731 CD2 LEU 229 -26.254 39.233 42.860 1.00 31.77 IDIXIS ATOM 1731 CD2 LEU 229 -27.334 37.014 43.143 1.00 31.68 IDIXIS ATOM 1731 CD THR 230 -24.011 35.643 46.447 1.00 31.91 IDIXIS ATOM 1731 CD THR 230 -22.129 35.3559 47.072 1.00 34.10 IDIXIS ATOM 1737 CD THR 230 -22.1466 31.836 47.178 1.00 34.60 IDIXIS ATOM 1736 CB THR 230 -22.466 31.826 47.178 1.00 34.26 IDIXIS ATOM 1736 CB THR 230 -22.466 31.826 47.178 1.00 34.26 IDIXIS ATOM 1737 CD THR 230 -22.466 31.826 47.178 1.00 34.26 IDIXIS ATOM 1738 CG2 THR 230 -22.466 31.826 47.178 1.00 34.26 IDIXIS ATOM 1738 CG2 THR 230 -22.463 31.260 45.870 1.00 31.47 IDIXIS ATOM 1738 CG2 THR 230 -22.463 31.260 45.870 1.00 37.66 IDIXIS ATOM 1740 CA ASP 231 -1.478 36.674 45.592 1.00 37.66 IDIXIS ATOM 1744 CG ASP 231 -1.478 36.674 45.592 1.00 37.66 IDIXIS ATOM 1744 CG ASP 231 -1.478 36.674 45.592 1.00 37.66 IDIXIS ATOM 1744 CG ASP 231 -1.9166 36.303 1.227 1.00 44.99 1.00 49.96 IDIXIS ATOM 1745 CD ASP 231 -1.916 36.303 1.327 40.00 49.96 IDIXIS ATOM 1746 CD ASP 231 -1.916 36.303 1.327 40.00 49.96 IDIXIS ATOM 1746 CD ASP 231 -1.916 36.303 1.927 40.00 49.99 (10 IDIXIS ATOM 1746 CD ASP 231 -1.916 36.303 1.927 40.00 49.99 (10 IDIXIS ATOM 1746 CD ASP 231 -1.916 36.303 1.927 40.00 49.99 (10 IDIXIS ATOM 1745 CD ASP 231 -1.916 36.303 1.936 47.321 1.00 44.99 (10 IDIXIS ATOM 1745 CD ASP 231 -1.916 36.303 1.936 47.321 1.00 45.90 IDIXIS ATOM 1746 CD ASP 231 -1.916 36.303 1.936 47.321 1.00 44.99 (10 IDIXIS ATOM 1745 CD ASP 231 -1.926 31.319 37.976 40.310 40.99 (10 IDIXIS ATOM 1745 CD ASP 231 -1.926 31.319 37.976 40.310 40.99 (10 IDIXIS ATOM 1749 CD ASP 231 -1.926 40.310 31										1DIK1814
ATOM 1726 C LEU 229 -25.991 36.988 46.022 1.00 35.85 10IX.8 ATOM 1727 C LEU 229 -24.689 36.735 46.771 1.00 36.00 10IX.8 ATOM 1727 O LEU 229 -24.630 31.520 47.633 1.00 37.29 10IX.8 ATOM 1728 CB LEU 229 -24.012 37.520 47.633 1.00 37.29 10IX.8 ATOM 1730 COL LEU 229 -26.254 39.233 42.860 1.00 31.271 10IX.8 ATOM 1731 CD2 LEU 229 -26.254 39.233 42.860 1.00 31.271 10IX.8 ATOM 1731 CD2 LEU 229 -27.334 37.014 43.143 1.00 31.68 ATOM 1732 N THR 230 -24.701 35.643 46.447 1.00 31.391 10IX.8 ATOM 1733 C ATHR 230 -22.729 15.359 46.083 1.00 34.69 10IX.8 ATOM 1735 C THR 230 -21.743 35.359 46.083 1.00 34.69 10IX.8 ATOM 1736 C THR 230 -22.746 33.260 45.870 1.00 34.09 10IX.8 ATOM 1737 G RITR 230 -22.461 31.260 45.870 1.00 30.93 10IX.8 ATOM 1737 G RITR 230 -22.463 31.250 45.870 1.00 30.93 10IX.8 ATOM 1737 N ASP 231 -20.493 36.131 46.494 1.00 37.66 10IX.8 ATOM 1730 C ASP 231 -19.478 36.674 45.592 1.00 39.60 10IX.8 ATOM 1741 C ASP 231 -19.478 36.674 45.592 1.00 39.60 10IX.8 ATOM 1741 C ASP 231 -19.478 36.674 45.592 1.00 39.60 10IX.8 ATOM 1741 C ASP 231 -19.478 36.674 45.592 1.00 39.60 10IX.8 ATOM 1744 C ASP 231 -19.478 36.674 45.592 1.00 39.60 10IX.8 ATOM 1746 CO ASP 231 -19.18 36.674 47.221 1.00 44.99 10IX.8 ATOM 1746 CO ASP 231 -19.18 36.630 47.321 1.00 49.91 10IX.8 ATOM 1746 CO ASP 231 -19.488 31.520 43.488 1.00 49.76 10IX.8 ATOM 1746 CO ASP 231 -19.48 31.520 43.488 1.00 34.49 10IX.8 ATOM 1746 CO ASP 231 -19.48 31.520 43.488 1.00 34.20 10IX.8 ATOM 1746 CO ASP 231 -19.18 31.596 47.321 1.00 49.95 10IX.8 ATOM 1746 CO ASP 231 -19.48 31.520 43.488 1.00 34.29 10IX.8 ATOM 1746 CO ASP 231 -19.48 31.596 47.321 1.00 49.95 10IX.8 ATOM 1746 CO ATRR 232 -19.324 31.997 44.344 1.00 40.76 10IX.8 ATOM 1746 CO ATRR 232 -19.324 31.997 40.00 31.47 10IX.8 ATOM 1746 CO ATRR 232 -19.324 31.997 40.00 31.47 10IX.8 ATOM 1746 CO ATRR 232 -19.324 31.997 40.00 31.49 10IX.8 ATOM 1746 CO ATRR 232 -19.324 31.997 40.00 31.49 10IX.8 ATOM 1747 N TRR 232 -19.324 31.997 40.00 32.51 10IX.8 ATOM 1748 CO ATRR 232 -19.324 31.997 40.00 32.51 10IX.8 ATOM 1759 CG CUU 233 -2										1DIX1815
ATOM 1726 C LEU 229 -24.689 36.735 46.771 1.00 36.00 1DIX.8 ATOM 1727 O LEU 229 -24.502 37.520 47.630 1.00 37.29 1DIX.8 ATOM 1728 CB LEU 229 -24.502 37.520 47.630 1.00 37.29 1DIX.8 ATOM 1728 CG LEU 229 -25.7664 37.848 44.799 1.00 35.69 1DIX.8 ATOM 1730 CG LEU 229 -25.760 38.240 43.850 1.00 31.77 1DIX.8 ATOM 1730 CG LEU 223 -25.754 39.201 42.860 1.00 31.76 1DIX.8 ATOM 1731 NATURE 1731 NATURE 1732 NATURE 1732 NATURE 1733 CA THR 230 -24.013 35.599 47.072 1.00 34.10 1DIX.8 ATOM 1733 C THR 230 -22.729 35.559 47.072 1.00 34.10 1DIX.8 ATOM 1736 CB THR 230 -22.149 36.555 44.944 1.00 32.68 1DIX.8 ATOM 1736 CB THR 230 -22.169 31.589 47.072 1.00 34.10 1DIX.8 ATOM 1735 O THR 230 -22.169 31.580 47.178 1.00 34.26 1DIX.8 ATOM 1736 CB THR 230 -22.169 31.580 47.178 1.00 34.26 1DIX.8 ATOM 1737 CG THR 230 -22.169 31.580 47.178 1.00 34.26 1DIX.8 ATOM 1737 CG THR 230 -22.463 31.260 45.877 1.00 34.26 1DIX.8 ATOM 1737 CG THR 230 -22.463 31.260 45.877 1.00 34.26 1DIX.8 ATOM 1740 CA ASP 231 -19.312 35.994 47.178 1.00 30.91 1DIX.8 ATOM 1740 CA ASP 231 -19.312 35.994 44.344 1.00 37.66 1DIX.8 ATOM 1741 CA ASP 231 -19.312 35.994 44.344 1.00 40.76 1DIX.8 ATOM 1743 CB ASP 231 -19.312 35.994 44.344 1.00 40.76 1DIX.8 ATOM 1744 CG ASP 231 -19.312 35.994 44.344 1.00 40.76 1DIX.8 ATOM 1747 CB ASP 231 -19.312 35.994 44.344 1.00 40.76 1DIX.8 ATOM 1747 CB ASP 231 -19.312 35.994 44.344 1.00 40.76 1DIX.8 ATOM 1747 CB ASP 231 -19.312 35.994 44.394 1.00 40.76 1DIX.8 ATOM 1747 CB ASP 231 -19.312 35.994 44.394 1.00 40.76 1DIX.8 ATOM 1747 CB ASP 231 -19.312 35.994 44.394 1.00 40.76 1DIX.8 ATOM 1747 CB ASP 231 -19.32 35.994 44.394 1.00 40.76 1DIX.8 ATOM 1747 CB ATR 232 -20.280 31.694 40.494 1.00 40.76 1DIX.8 ATOM 1747 CB ATR 232 -20.280 31.694 40.494 1.00 40.76 1DIX.8 ATOM 1749 CB ATR 232 -20.280 31.694 40.494 1.00 40.76 1DIX.8 ATOM 1749 CB ATR 232 -20.280 31.694 40.494 1.00 40.76 1DIX.8 ATOM 1749 CB ATR 232 -20.280 31.694 40.494 1.00 40.76 1DIX.8 ATOM 1749 CB ATR 232 -20.280 31.694 40.494 1.00 40.76 1DIX.8 ATOM 1749 CB ATR 232 -20.280 31.694 40.494 1.00 30						-26.957	37.689	46.862		1DIK1816
ATOM 1728 CB LEU 229 -24.302 37.520 47.630 1.00 37.29 1DIX.B ATOM 1728 CB LEU 229 -25.664 37.848 44.799 1.00 35.69 1DIX.B ATOM 1730 CDI LEU 229 -25.6790 38.240 43.850 1.00 31.77 1DIX.B ATOM 1731 CDI LEU 229 -26.254 39.233 42.860 1.00 32.31 1DIX.B ATOM 1731 CDI LEU 229 -26.254 39.233 42.860 1.00 32.31 1DIX.B ATOM 1731 CDI LEU 229 -26.254 39.233 42.860 1.00 32.31 1DIX.B ATOM 1731 NO 4188 230 -26.254 39.233 42.860 1.00 32.31 1DIX.B ATOM 1732 NO 4188 230 -22.134 37.044 41.10 32.68 1DIX.B ATOM 1734 C THR 230 -22.1743 35.599 46.083 1.00 34.69 1DIX.B ATOM 1735 CB THR 230 -22.1749 35.599 46.083 1.00 34.69 1DIX.B ATOM 1736 CB THR 230 -22.1749 35.599 46.083 1.00 34.69 1DIX.B ATOM 1736 CB THR 230 -22.166 33.838 47.178 1.00 34.69 1DIX.B ATOM 1736 CB THR 230 -22.166 33.838 47.178 1.00 34.69 1DIX.B ATOM 1737 CGI THR 230 -22.169 33.260 45.870 1.00 30.93 1DIX.B ATOM 1738 CG2 THR 230 -22.169 33.260 45.870 1.00 30.93 1DIX.B ATOM 1738 CG2 THR 230 -22.169 33.66.31 46.494 1.00 30.96 1DIX.B ATOM 1740 CA ASP 231 -19.166 36.303 13.20 40.592 1.00 37.66 1DIX.B ATOM 1740 CA ASP 231 -19.166 36.303 13.20 40.592 1.00 37.66 1DIX.B ATOM 1744 CG ASP 231 -19.166 36.303 13.20 40.590 1.00 37.66 1DIX.B ATOM 1746 CO ASP 231 -19.166 36.303 13.227 1.00 43.91 1DIX.B ATOM 1746 CO ASP 231 -19.168 36.303 13.227 1.00 43.91 1DIX.B ATOM 1746 CO ASP 231 -19.163 36.303 47.322 1.00 49.54 1DIX.B ATOM 1746 CO ASP 231 -19.163 36.303 47.322 1.00 49.54 1DIX.B ATOM 1746 CO ASP 231 -19.163 36.303 47.322 1.00 49.55 1DIX.B ATOM 1746 CO ASP 231 -19.163 36.303 47.322 1.00 49.55 1DIX.B ATOM 1745 CO ASP 231 -19.163 36.303 47.322 1.00 49.55 1DIX.B ATOM 1745 CO ASP 231 -19.163 31.303 47.322 1.00 49.55 1DIX.B ATOM 1745 CO ASP 231 -19.163 31.303 47.322 1.00 49.55 1DIX.B ATOM 1755 CG GU 233 -2.25 30 33.35 40.45 1D.00 49.54 1DIX.B ATOM 1750 CG THR 232 -19.163 31.303 44.85 1.00 49.55 1DIX.B ATOM 1750 CG THR 232 -19.163 31.303 44.85 1.00 49.55 1DIX.B ATOM 1750 CG THR 232 -19.163 31.303 44.85 1.00 49.55 1DIX.B ATOM 1750 CG THR 232 -19.163 31.303 44.85 1.00 49.55 1DIX.B ATOM 1750 CG						-23.991				
ATOM 1729 CG LEU 229 -25.664 37.848 44.799 1.00 35.69 10KKB ATOM 1730 CDL LEU 229 -26.790 38.240 43.850 1.00 31.77 10KLB ATOM 1731 CDL LEU 229 -26.254 39.233 42.860 1.00 31.731 10KLB ATOM 1731 CDL LEU 229 -26.254 39.233 42.860 1.00 31.681 10KLB ATOM 1731 CDL LEU 229 -27.314 37.014 43.441 1.00 31.688 10KLB ATOM 1732 CD THR 230 -22.413 35.634 46.447 1.00 31.681 10KLB ATOM 1733 CD THR 230 -22.463 31.503 46.447 1.00 31.681 10KLB ATOM 1735 CD THR 230 -22.463 31.503 47.178 1.00 34.268 10KLB ATOM 1735 CD THR 230 -22.463 31.503 47.178 1.00 34.268 10KLB ATOM 1737 CG THR 230 -22.463 31.3260 45.870 1.00 34.268 10KLB ATOM 1737 CG THR 230 -22.463 31.3260 45.870 1.00 34.268 10KLB ATOM 1737 CG THR 230 -22.352 31.515 47.997 1.00 31.47 10KLB ATOM 1737 CG THR 230 -23.552 31.515 47.997 1.00 31.47 10KLB ATOM 1739 N ASP 231 -20.493 36.131 46.494 1.00 37.66 10KLB ATOM 1740 CA ASP 231 -19.478 36.674 45.592 1.00 37.66 10KLB ATOM 1741 C ASP 231 -19.478 36.674 45.592 1.00 37.60 10KLB ATOM 1741 C ASP 231 -19.478 36.674 45.592 1.00 37.60 10KLB ATOM 1741 C ASP 231 -19.142 36.674 45.592 1.00 37.60 10KLB ATOM 1744 CG ASP 231 -19.142 36.674 47.344 1.00 40.76 10KLB ATOM 1744 CG ASP 231 -19.142 38.825 47.233 1.00 49.99 10KLB ATOM 1744 CG ASP 231 -19.142 37.976 48.202 1.00 49.99 10KLB ATOM 1744 CG ASP 231 -19.188 36.504 47.344 1.00 40.76 10KLB ATOM 1746 CO.2 ASP 231 -17.834 37.976 48.202 1.00 49.54 10KLB ATOM 1746 CO.2 ASP 231 -17.254 37.976 48.202 1.00 49.54 10KLB ATOM 1748 CA THR 232 -19.324 37.976 48.202 1.00 49.54 10KLB ATOM 1748 CA THR 232 -19.324 37.976 48.202 1.00 49.54 10KLB ATOM 1750 CD THR 232 -19.324 37.976 48.202 1.00 49.54 10KLB ATOM 1750 CD THR 232 -19.324 37.976 48.202 1.00 49.54 10KLB ATOM 1750 CD THR 232 -19.324 37.976 48.202 1.00 49.54 10KLB ATOM 1750 CD THR 232 -19.324 37.936 47.331 1.00 44.99 10KLB ATOM 1750 CD THR 232 -19.324 37.938 41.00 38.28 10KLB ATOM 1750 CD THR 232 -19.246 37.939 10KLB ATOM 1750						-24.689	36./35	46.//1	1.00 36.00	
ATOM 1730 CDI LEU 229 -26.254 39.233 42.860 1.00 31.77 IDIKIS ATOM 1731 CDI LEU 229 -26.254 39.233 42.860 1.00 32.31 IDIKIS ATOM 1731 CDI LEU 229 -27.334 37.014 43.143 1.00 31.68 IDIKIS ATOM 1732 N THR 230 -24.011 35.643 46.447 1.00 31.91 IDIKIS ATOM 1732 N THR 230 -24.011 35.643 46.447 1.00 31.91 IDIKIS ATOM 1735 CD THR 230 -22.112 35.633 47.072 1.00 34.10 IDIKIS ATOM 1735 CD THR 230 -22.129 35.559 47.072 1.00 34.10 IDIKIS ATOM 1735 CD THR 230 -22.146 33.860 47.078 1.00 34.26 IDIKIS ATOM 1736 CB THR 230 -22.146 33.860 47.178 1.00 34.26 IDIKIS ATOM 1736 CB THR 230 -22.146 33.260 45.870 1.00 34.26 IDIKIS ATOM 1736 CB THR 230 -22.146 33.260 47.178 1.00 34.26 IDIKIS ATOM 1738 CG2 THR 230 -22.146 33.260 45.870 1.00 37.66 IDIKIS ATOM 1738 CG2 THR 230 -22.146 33.260 44.344 1.00 37.66 IDIKIS ATOM 1740 CA ASP 231 -19.478 36.674 45.592 1.00 37.66 IDIKIS ATOM 1740 CA ASP 231 -19.132 35.794 44.344 1.00 40.76 IDIKIS ATOM 1741 C ASP 231 -19.132 35.794 44.344 1.00 40.76 IDIKIS ATOM 1744 CG ASP 231 -19.132 35.794 44.344 1.00 40.76 IDIKIS ATOM 1744 CG ASP 231 -19.132 36.302 46.343 1.00 49.50 IDIKIS ATOM 1746 OD2 ASP 231 -19.132 36.302 46.321 1.00 49.91 IDIKIS ATOM 1746 OD2 ASP 231 -19.132 36.302 46.231 1.00 49.91 IDIKIS ATOM 1746 OD2 ASP 231 -19.24 31.976 48.202 1.00 49.54 IDIKIS ATOM 1747 N THR 232 -19.24 31.976 48.202 1.00 49.54 IDIKIS ATOM 1747 N THR 232 -19.24 31.976 48.202 1.00 49.54 IDIKIS ATOM 1747 N THR 232 -19.24 31.37.976 48.202 1.00 49.54 IDIKIS ATOM 1747 N THR 232 -19.24 31.37.976 48.202 1.00 49.54 IDIKIS ATOM 1747 N THR 232 -19.24 31.37.976 48.202 1.00 49.54 IDIKIS ATOM 1747 N THR 232 -19.183 31.3504 41.200 31.00 49.55 IDIKIS ATOM 1747 N THR 232 -19.24 31.37.976 41.00 31.458 1.00 34.100 IDIKIS ATOM 1745 CD THR 232 -20.280 33.679 42.416 1.00 32.25 IDIKIS ATOM 1750 CD THR 232 -20.280 33.679 42.416 1.00 32.25 IDIKIS ATOM 1750 CD THR 232 -20.280 33.690 44.856 1.00 34.55 IDIKIS ATOM 1750 CD THR 232 -20.280 33.690 44.856 1.00 34.55 IDIKIS ATOM 1750 CD THR 232 -20.280 33.690 44.856 1.00 34.55 IDIKIS ATOM 1750 CD THR 232						-24.302		47.630		
ATOM 1731 CD2 LEU 229 -22.6.254 39.233 42.860 1.00 32.31 1DIXL8 ATOM 1731 CD2 LEU 229 -27.343 37.014 43.143 1.00 31.688 1DIXL8 ATOM 1732 N THR 230 -22.4011 35.643 46.447 1.00 31.91 1DIXL8 ATOM 1733 CA THR 230 -22.729 35.559 47.072 1.00 34.10 1DIXL8 ATOM 1733 CA THR 230 -22.7403 35.559 47.072 1.00 34.10 1DIXL8 ATOM 1735 CB THR 230 -22.7403 35.559 46.883 1.00 32.66 1DIXL8 ATOM 1736 CB THR 230 -22.466 33.839 47.178 1.00 34.26 1DIXL8 ATOM 1737 CG1 THR 230 -22.466 33.839 47.178 1.00 34.26 1DIXL8 ATOM 1738 CG2 THR 230 -22.463 33.260 45.870 1.00 30.93 1DIXL8 ATOM 1739 N ASP 231 -20.493 36.131 46.994 1.00 37.66 1DIXL8 ATOM 1740 CA ASP 231 -19.478 36.674 45.592 1.00 39.60 1DIXL8 ATOM 1741 C ASP 231 -19.132 35.794 44.144 1.00 40.76 1DIXL8 ATOM 1742 C ASP 231 -19.132 35.794 44.144 1.00 40.76 1DIXL8 ATOM 1743 CB ASP 231 -19.169 36.303 41.227 1.00 43.11 1DIXL8 ATOM 1746 CB ASP 231 -19.169 36.303 41.227 1.00 43.11 1DIXL8 ATOM 1746 CB ASP 231 -19.169 36.303 41.227 1.00 43.11 1DIXL8 ATOM 1746 CB ASP 231 -19.12 35.829 46.513 1.00 39.69 1DIXL8 ATOM 1746 CB ASP 231 -19.12 35.829 46.513 1.00 40.76 1DIXL8 ATOM 1746 CB ASP 231 -19.12 37.976 48.202 1.00 49.54 1DIXL8 ATOM 1747 N THR 232 -19.224 31.499 44.544 1.00 39.69 1DIXL8 ATOM 1748 CA THR 232 -19.124 31.896 44.586 1.00 34.10 1DIXL8 ATOM 1749 C THR 232 -19.188 33.520 41.458 1.00 34.10 1DIXL8 ATOM 1750 O THR 232 -19.188 33.520 41.458 1.00 34.10 1DIXL8 ATOM 1750 CG THR 232 -19.188 33.520 41.458 1.00 34.10 1DIXL8 ATOM 1750 CG THR 232 -19.188 33.520 41.458 1.00 34.10 1DIXL8 ATOM 1750 CG THR 232 -19.188 33.520 41.458 1.00 34.10 1DIXL8 ATOM 1750 CG THR 232 -19.188 33.520 41.458 1.00 34.55 1DIXL8 ATOM 1750 CG THR 232 -19.188 33.520 41.458 1.00 34.55 1DIXL8 ATOM 1750 CG THR 232 -19.188 33.520 41.0458 1.00 34.55 1DIXL8 ATOM 1750 CG THR 232 -19.188 33.520 41.00 40.00 49.54 1DIXL8 ATOM 1750 CG THR 232 -19.188 33.520 40.00 49.54 1DIXL8 ATOM 1750 CG THR 232 -19.188 33.520 40.00 49.54 1DIXL8 ATOM 1751 CG THR 232 -19.188 33.520 40.00 49.54 1DIXL8 ATOM 1751 CG THR 232 -19.188 33.520 40.00 49.54 1D						-25.004		43 850		
ATOM 1731 CD2 LEU 229 -27.334 37.014 43.143 1.00 31.68 10IK18 ATOM 1732 N THR 230 -22.729 31.35.59 47.072 1.00 33.91 10IK18 ATOM 1734 C THR 230 -22.729 35.559 47.072 1.00 34.10 10IK18 ATOM 1735 O THR 230 -22.173 35.559 47.072 1.00 34.10 10IK18 ATOM 1736 CB THR 230 -22.119 35.655 44.944 1.00 32.68 10IK18 ATOM 1736 CB THR 230 -22.166 33.838 47.178 1.00 34.26 10IK18 ATOM 1736 CB THR 230 -22.166 33.838 47.178 1.00 34.26 10IK18 ATOM 1736 CB THR 230 -22.466 33.838 47.178 1.00 34.26 10IK18 ATOM 1736 CB THR 230 -22.466 33.838 47.178 1.00 34.26 10IK18 ATOM 1740 CA ASP 231 -20.493 36.131 1.60 49.1 1.00 37.67 10IK18 ATOM 1741 CA ASP 231 -19.186 36.674 45.592 1.00 39.60 10IK18 ATOM 1742 O ASP 231 -19.186 36.303 43.227 1.00 43.31 10IK18 ATOM 1744 CG ASP 231 -19.186 36.303 43.227 1.00 43.31 10IK18 ATOM 1745 OOL ASP 231 -19.186 36.303 43.227 1.00 43.31 10IK18 ATOM 1746 OD2 ASP 231 -19.196 36.303 43.227 1.00 44.99 10IK18 ATOM 1746 OD2 ASP 231 -19.196 38.825 47.233 1.00 39.60 10IK18 ATOM 1746 OD2 ASP 231 -19.196 38.825 47.233 1.00 44.99 10IK18 ATOM 1746 OD2 ASP 231 -19.196 38.825 47.233 1.00 44.99 10IK18 ATOM 1746 OD2 ASP 231 -19.196 38.825 47.233 1.00 44.99 10IK18 ATOM 1749 N THR 232 -19.247 38.825 47.233 1.00 43.25 10IK18 ATOM 1746 OD2 ASP 231 -19.186 33.509 43.221 1.00 34.37 10IK18 ATOM 1746 OD2 ASP 231 -19.186 33.509 43.94 4.344 1.00 38.28 10IK18 ATOM 1746 OD2 ASP 231 -19.186 33.509 43.94 4.344 1.00 38.28 10IK18 ATOM 1746 OD2 ASP 231 -19.196 31.609 43.94 4.344 1.00 38.28 10IK18 ATOM 1746 OD2 ASP 231 -19.196 31.609 43.94 4.344 1.00 38.28 10IK18 ATOM 1750 O THR 232 -19.200 33.609 43.207 44.94 4.00 38.25 10IK18 ATOM 1751 CB THR 232 -19.200 33.609 43.207 44.94 4.00 40.20 43.41 10IK18 ATOM 1751 CB THR 232 -19.200 33.609 43.207 44.94 4.00 36.21 10IK18 ATOM 1756 C CG U2 233 -22.527 33.978 44.944 1.00 32.71 10IK18 ATOM 1757 O GLU 233 -22.527 33.978 44.948 1.00 29.61 10IK18 ATOM 1758 CB GLU 233 -22.527 33.978 44.999 1.00 29.61 10IK18 ATOM 1758 CB GLU 233 -22.527 33.998 39.872 1.00 32.79 10IK18 ATOM 1758 CB GLU 233 -22.528 39.990 40.										
ATON 1732 N THR 230 -22.129 35.359 46.083 1.00 31.91 101K18 ATON 1734 C THR 230 -22.1743 35.959 46.083 1.00 34.69 101K18 ATON 1735 O THR 230 -22.1463 31.959 46.083 1.00 34.69 101K18 ATON 1736 CB THR 230 -22.1463 31.838 47.178 1.00 34.26 101K18 ATON 1737 GG1 THR 230 -22.1463 31.838 47.178 1.00 34.26 101K18 ATON 1738 CG2 THR 230 -22.1463 31.838 47.178 1.00 34.26 101K18 ATON 1739 N SS 2311 -20.939 36.131 46.994 1.00 32.66 101K18 ATON 1739 N SS 2311 -20.939 36.131 46.994 1.00 31.46 101K18 ATON 1740 CA ASP 231 -39.112 36.25 101K18 ATON 1741 CO ASP 231 -19.112 36.25 101K18 ATON 1744 CG ASP 231 -19.112 36.25 101K18 ATON 1745 CO ASP 231 -19.112 36.827 46.313 1.00 39.61 101K18 ATON 1746 CO ASP 231 -19.112 36.827 46.313 1.00 39.61 101K18 ATON 1746 CO ASP 231 -19.102 38.825 47.231 1.00 43.96 101K18 ATON 1747 N THR 232 -19.104 38.825 47.233 1.00 45.50 101K18 ATON 1748 CA TR 232 -19.104 38.825 47.233 1.00 45.50 101K18 ATON 1748 CA TR 232 -19.104 33.679 44.544 1.00 32.21 101K18 ATON 1748 CA TR 232 -19.104 33.679 44.544 1.00 32.21 101K18 ATON 1748 CA TR 232 -19.104 33.679 44.544 1.00 32.21 101K18 ATON 1748 CA TR 232 -19.104 33.679 44.544 1.00 38.28 101K18 ATON 1749 C THR 232 -19.104 33.679 44.544 1.00 38.28 101K18 ATON 1749 C THR 232 -19.104 33.679 42.166 1.00 32.21 101K18 ATON 1749 C THR 232 -19.104 33.679 42.166 1.00 32.21 101K18 ATON 1749 C THR 232 -19.104 33.679 42.166 1.00 32.21 101K18 ATON 1749 C THR 232 -19.224 33.679 44.549 1.00 34.355 101K18 ATON 1749 C THR 232 -19.224 33.679 44.549 1.00 34.355 101K18 ATON 1749 C THR 232 -19.324 34.479 44.544 1.00 38.28 101K18 ATON 1749 C THR 232 -19.324 33.679 42.166 1.00 32.27 101K18 ATON 1749 C THR 232 -19.104 33.679 42.166 1.00 32.27 101K18 ATON 1749 C THR 232 -19.104 33.679 42.166 1.00 32.27 101K18 ATON 1750 C THR 232 -19.22 10.22							37.014	43 143		
ATON 1734 C THR 230 -22.773 35.559 47.072 1.00 34.10 101K.18 ATON 1735 O THR 230 -22.1743 35.559 47.072 1.00 34.10 101K.18 ATON 1736 CB THR 230 -22.149 35.559 47.081 1.00 34.268 101K.18 ATON 1736 CB THR 230 -22.1466 33.818 47.178 1.00 34.26 101K.18 ATON 1736 CB THR 230 -22.466 33.818 A7.178 1.00 34.26 101K.18 ATON 1736 CB THR 230 -22.466 33.818 A7.178 1.00 34.26 101K.18 ATON 1739 W 25.76 20 10 -20.4853 33.60 45.870 1.00 31.97 101K.18 ATON 1740 CA ASP 231 -20.483 36.674 45.592 1.00 39.60 101K.18 ATON 1741 C ASP 231 -19.124 35.794 44.344 1.00 40.76 101K.18 ATON 1742 O ASP 231 -19.186 36.303 41.227 1.00 43.31 101K.18 ATON 1743 CB ASP 231 -19.186 36.303 41.227 1.00 43.31 101K.18 ATON 1744 CG ASP 231 -19.186 36.303 41.227 1.00 43.31 101K.18 ATON 1745 OOL ASP 231 -19.196 36.303 41.227 1.00 44.99 101K.18 ATON 1746 OD2 ASP 231 -19.196 36.303 41.227 1.00 44.99 101K.18 ATON 1746 OD2 ASP 231 -19.196 36.303 41.227 1.00 44.99 101K.18 ATON 1746 OD2 ASP 231 -19.196 38.825 47.233 1.00 45.50 101K.18 ATON 1746 OD2 ASP 231 -19.196 38.825 47.233 1.00 45.50 101K.18 ATON 1746 OD2 ASP 231 -19.186 31.629 44.944 1.00 39.54 101K.18 ATON 1746 OD2 ASP 231 -19.196 38.825 47.233 1.00 45.50 101K.18 ATON 1746 OD2 ASP 231 -19.196 31.629 43.456 1.00 34.57 101K.18 ATON 1750 O THR 232 -19.196 31.629 43.456 1.00 34.57 101K.18 ATON 1751 CB THR 232 -19.200 31.529 43.456 1.00 34.37 101K.18 ATON 1751 CB THR 232 -19.203 31.529 43.456 1.00 34.37 101K.18 ATON 1756 C GLU 233 -22.527 33.978 44.984 1.00 20.62.1 101K.18 ATON 1756 C GLU 233 -22.527 33.978 44.994 1.00 20.62.1 101K.18 ATON 1757 O GLU 233 -22.527 33.978 44.991 1.00 29.61 101K.18 ATON 1756 C GLU 233 -22.527 33.978 44.991 1.00 29.61 101K.18 ATON 1757 O GLU 233 -22.527 33.978 44.919 1.00 29.61 101K.18 ATON 1757 O GLU 233 -22.527 33.978 44.919 1.00 29.61 101K.18 ATON 1757 O GLU 233 -22.527 33.978 44.919 1.00 29.61 101K.18 ATON 1758 CB GLU 233 -22.527 33.978 44.919 1.00 29.61 101K.18 ATON 1767 CG AUL 234 -22.779 37.131 39.50 40.00 30.27 101K.18 ATON 1768 CG LU 233 -22.527 33.998 39.90 1.00 27.61 101K								46 447		
ATON 1735 C THR 230 -22.1743 35.959 46.083 1.00 34.69 10TKLB ATON 1736 CB THR 230 -22.166 33.838 47.178 1.00 32.68 10TKLB ATON 1736 CB THR 230 -22.166 33.838 47.178 1.00 34.26 10TKLB ATON 1737 OG1 THR 230 -22.166 33.838 47.178 1.00 34.26 10TKLB ATON 1738 CG2 THR 230 -22.1552 33.151 47.997 1.00 31.47 10TKLB ATON 1739 N ASP 231 -20.393 36.131 46.494 1.00 37.66 10TKLB ATON 1740 CA ASP 231 -20.933 36.131 46.494 1.00 37.66 10TKLB ATON 1740 CA ASP 231 -19.478 36.674 45.592 1.00 39.66 10TKLB ATON 1740 CA SP 231 -19.478 36.674 45.592 1.00 39.66 10TKLB ATON 1741 CG ASP 231 -19.186 36.674 45.592 1.00 39.66 10TKLB ATON 1744 CG ASP 231 -19.188 36.827 46.213 1.00 49.96 10TKLB ATON 1744 CG ASP 231 -19.188 36.827 46.213 1.00 49.96 10TKLB ATON 1746 OO2 ASP 231 -19.942 38.825 47.233 1.00 45.50 10TKLB ATON 1746 OO2 ASP 231 -19.942 38.825 47.233 1.00 45.50 10TKLB ATON 1747 N THR 232 -19.324 34.479 44.544 1.00 38.28 10TKLB ATON 1748 CA THR 232 -19.324 34.479 44.544 1.00 38.28 10TKLB ATON 1749 C THR 232 -19.934 33.663 41.222 1.00 34.355 10TKLB ATON 1745 C THR 232 -19.934 33.663 41.222 1.00 34.355 10TKLB ATON 1745 C THR 232 -19.188 33.520 43.458 1.00 34.10 10TKLB ATON 1750 O THR 232 -19.324 34.479 44.544 1.00 38.28 10TKLB ATON 1751 CB THR 232 -19.934 33.663 41.222 1.00 34.555 10TKLB ATON 1751 CB THR 232 -19.324 34.479 44.544 1.00 32.21 10TKLB ATON 1755 C CG LU 233 -22.22 30.3679 42.416 1.00 32.21 10TKLB ATON 1757 C CG LU 233 -22.22 30.3679 42.466 1.00 32.27 10TKLB ATON 1758 C CG LU 233 -22.22 30.3679 42.466 1.00 32.27 10TKLB ATON 1759 C CG LU 233 -22.500 33.679 42.94 4.680 1.00 32.75 10TKLB ATON 1759 C CG LU 233 -22.500 33.699 42.94 4.889 1.00 27.65 10TKLB ATON 1750 C THR 232 -19.69 33.699 42.94 4.94 4.94 4.94 4.94 4.94 4.94 4								47.072		1DIK1825
ATON 1736 CB THR 230 -22.146 33.828 47.18 1.00 32.88 10IX18 ATON 1737 CG1 THR 230 -22.466 33.828 47.18 1.00 34.26 10IX18 ATON 1738 CG2 THR 230 -22.463 33.260 45.870 1.00 30.93 10IX18 ATON 1738 CG2 THR 230 -22.463 33.260 45.870 1.00 30.93 10IX18 ATON 1738 CG2 THR 230 -22.463 33.260 45.870 1.00 30.93 10IX18 ATON 1738 CG2 THR 230 -22.463 33.260 45.870 1.00 37.60 10IX18 ATON 1738 CG2 THR 230 -23.493 36.131 47.997 1.00 31.47 10IX18 ATON 1740 C ASP 231 -19.182 36.303 41.227 1.00 43.91 10IX18 ATON 1741 C ASP 231 -19.186 36.303 41.227 1.00 43.31 10IX18 ATON 1743 CB ASP 231 -19.186 36.303 41.227 1.00 43.31 10IX18 ATON 1744 CG ASP 231 -18.147 37.956 47.321 1.00 44.99 10IX18 ATON 1745 ODL ASP 231 -19.186 36.303 41.227 1.00 43.31 10IX18 ATON 1746 ODL ASP 231 -19.042 38.825 47.233 1.00 45.50 10IX18 ATON 1746 ODL ASP 231 -19.042 38.825 47.233 1.00 45.50 10IX18 ATON 1746 ODL ASP 231 -19.262 38.825 47.233 1.00 45.50 10IX18 ATON 1749 C THR 232 -19.188 33.520 43.458 1.00 34.10 10IX18 ATON 1749 C THR 232 -19.188 33.520 43.458 1.00 34.10 10IX18 ATON 1750 O THR 232 -19.994 33.663 41.222 1.00 34.55 10IX18 ATON 1751 CB THR 232 -19.200 33.679 42.416 1.00 32.21 10IX18 ATON 1752 OGI THR 232 -19.186 33.520 43.458 1.00 34.10 10IX18 ATON 1755 CA GLU 233 -22.50 33.679 42.416 1.00 35.55 10IX18 ATON 1756 C GLU 233 -22.50 33.835 44.856 1.00 35.55 10IX18 ATON 1756 C GLU 233 -22.50 33.835 49.848 1.00 26.21 10IX18 ATON 1756 C GLU 233 -22.50 33.835 49.848 1.00 26.21 10IX18 ATON 1756 C GLU 233 -22.50 33.835 49.848 1.00 26.21 10IX18 ATON 1756 C GLU 233 -22.50 33.835 49.848 1.00 26.21 10IX18 ATON 1760 CO GLU 233 -22.50 33.835 49.848 1.00 26.21 10IX18 ATON 1760 CO GLU 233 -22.50 33.835 49.848 1.00 26.21 10IX18 ATON 1760 CO GLU 233 -22.50 33.835 49.848 1.00 26.27 10IX18 ATON 1760 CO WAL 234 -22.19.16 36.270 41.529 1.00 26.78 10IX18 ATON 1760 CO WAL 234 -22.20 33.1896 41.015 1.00 27.81 10IX18 ATON 1760 CO WAL 234 -22.20 33.835 60.30 1.00 28.77 10IX18 ATON 1760 CO WAL 234 -22.20 33.835 60.30 1.00 28.77 10IX18 ATON 1760 CO WAL 234 -22.20 33.835 60.30 1.00						-21.743				1DIK1826
ATON 1738 CG2 THR 230 -22.463 33.260 45.870 1.00 30.93 10TK18 ATON 1738 CG2 THR 230 -23.552 33.151 47.997 1.00 31.47 10TK18 ATON 1738 CG2 THR 230 -23.552 33.151 47.997 1.00 31.47 10TK18 ATON 1740 CA ASP 231 -19.178 36.674 45.552 1.00 39.66 10TK18 ATON 1740 CA ASP 231 -19.186 36.307 40.227 1.00 40.76 10TK18 ATON 1741 C ASP 231 -19.186 36.307 40.227 1.00 40.76 10TK18 ATON 1741 CA ASP 231 -19.186 36.307 40.227 1.00 40.96 10TK18 ATON 1744 CG ASP 231 -19.186 36.307 40.227 1.00 44.99 10TK18 ATON 1744 CG ASP 231 -19.186 36.307 40.227 1.00 44.99 10TK18 ATON 1745 OOL ASP 231 -19.186 36.307 40.227 1.00 44.99 10TK18 ATON 1746 OOL ASP 231 -19.186 36.307 40.227 1.00 49.95 10TK18 ATON 1746 OOL ASP 231 -19.186 36.307 40.227 1.00 49.95 10TK18 ATON 1747 N THR 232 -19.224 34.479 44.544 1.00 38.28 10TK18 ATON 1747 N THR 232 -19.280 33.679 42.416 1.00 32.21 10TK18 ATON 1749 C THR 232 -20.280 33.679 42.416 1.00 32.21 10TK18 ATON 1750 O THR 232 -19.994 33.663 41.222 1.00 34.55 10TK18 ATON 1751 CB THR 232 -19.186 31.007 44.856 1.00 34.17 10TK18 ATON 1755 CG THR 232 -19.163 31.007 42.894 1.00 26.21 10TK18 ATON 1755 CG GLU 233 -22.500 35.694 4.856 1.00 35.55 10TK18 ATON 1755 CG GLU 233 -22.500 35.196 41.016 1.00 37.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1766 C VAL 234 -22.027 33.800 41.026 1.00 28.27 10TK18 ATON 1766 C VAL 234 -22.027 33.800 41.026 1.00 28.77 10TK18 ATON 1766 C VAL 234 -22.027 33.800 40.20 39.800 1.00 27.81 10TK18 ATON 1766 C VAL 234 -22.02 39.114 42.574						-22.119		44.944	1.00 32.68	1DIK1827
ATON 1738 CG2 THR 230 -22.463 33.260 45.870 1.00 30.93 10TK18 ATON 1738 CG2 THR 230 -23.552 33.151 47.997 1.00 31.47 10TK18 ATON 1738 CG2 THR 230 -23.552 33.151 47.997 1.00 31.47 10TK18 ATON 1740 CA ASP 231 -19.178 36.674 45.552 1.00 39.66 10TK18 ATON 1740 CA ASP 231 -19.186 36.307 40.227 1.00 40.76 10TK18 ATON 1741 C ASP 231 -19.186 36.307 40.227 1.00 40.76 10TK18 ATON 1741 CA ASP 231 -19.186 36.307 40.227 1.00 40.96 10TK18 ATON 1744 CG ASP 231 -19.186 36.307 40.227 1.00 44.99 10TK18 ATON 1744 CG ASP 231 -19.186 36.307 40.227 1.00 44.99 10TK18 ATON 1745 OOL ASP 231 -19.186 36.307 40.227 1.00 44.99 10TK18 ATON 1746 OOL ASP 231 -19.186 36.307 40.227 1.00 49.95 10TK18 ATON 1746 OOL ASP 231 -19.186 36.307 40.227 1.00 49.95 10TK18 ATON 1747 N THR 232 -19.224 34.479 44.544 1.00 38.28 10TK18 ATON 1747 N THR 232 -19.280 33.679 42.416 1.00 32.21 10TK18 ATON 1749 C THR 232 -20.280 33.679 42.416 1.00 32.21 10TK18 ATON 1750 O THR 232 -19.994 33.663 41.222 1.00 34.55 10TK18 ATON 1751 CB THR 232 -19.186 31.007 44.856 1.00 34.17 10TK18 ATON 1755 CG THR 232 -19.163 31.007 42.894 1.00 26.21 10TK18 ATON 1755 CG GLU 233 -22.500 35.694 4.856 1.00 35.55 10TK18 ATON 1755 CG GLU 233 -22.500 35.196 41.016 1.00 37.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 10TK18 ATON 1766 C VAL 234 -22.027 33.800 41.026 1.00 28.27 10TK18 ATON 1766 C VAL 234 -22.027 33.800 41.026 1.00 28.77 10TK18 ATON 1766 C VAL 234 -22.027 33.800 40.20 39.800 1.00 27.81 10TK18 ATON 1766 C VAL 234 -22.02 39.114 42.574	ATOM							47.178	1.00 34.26	1DIK1828
ATOM 1739 N ASP 231 -20.493 36.131 46.494 1.00 37.66 10IX.8 ATOM 1739 N ASP 231 -20.493 36.131 46.494 1.00 37.66 10IX.8 ATOM 1741 C ASP 231 -19.478 36.674 45.592 1.00 39.60 10IX.8 ATOM 1741 C ASP 231 -19.186 36.674 45.592 1.00 39.60 10IX.8 ATOM 1741 C ASP 231 -19.186 36.674 45.592 1.00 39.60 10IX.8 ATOM 1742 O ASP 231 -19.186 36.303 41.227 1.00 43.31 10IX.8 ATOM 1743 C8 ASP 231 -18.187 37.956 47.321 1.00 43.31 10IX.8 ATOM 1744 CG ASP 231 -18.147 37.956 47.321 1.00 44.99 10IX.8 ATOM 1745 001 ASP 231 -18.147 37.956 47.321 1.00 44.99 10IX.8 ATOM 1746 002 ASP 231 -19.1042 38.825 47.233 1.00 45.50 10IX.8 ATOM 1747 N THR 232 -19.124 34.479 44.544 1.00 39.54 10IX.8 ATOM 1747 N THR 232 -19.124 34.479 44.544 1.00 38.28 10IX.8 ATOM 1747 N THR 232 -19.124 34.479 44.544 1.00 34.28 10IX.8 ATOM 1740 CA THR 232 -19.124 34.479 44.544 1.00 34.28 10IX.8 ATOM 1740 CA THR 232 -19.124 34.479 44.546 1.00 34.28 10IX.8 ATOM 1750 O THR 232 -19.124 34.479 44.546 1.00 34.25 10IX.8 ATOM 1750 O THR 232 -19.124 34.479 44.546 1.00 34.28 10IX.8 ATOM 1750 O THR 232 -19.124 34.479 44.546 1.00 34.27 10IX.8 ATOM 1751 CB THR 232 -19.124 34.479 44.546 1.00 34.27 10IX.8 ATOM 1752 OGI THR 232 -19.124 34.479 44.546 1.00 34.27 10IX.8 ATOM 1751 CB THR 232 -19.124 34.479 44.546 1.00 34.27 10IX.8 ATOM 1755 CG THR 232 -19.124 34.496 44.556 1.00 35.55 10IX.8 ATOM 1755 CG GGU 233 -22.557 33.895 44.010 1.00 2.621 10IX.8 ATOM 1756 CG GGU 233 -22.557 33.895 42.856 1.00 28.27 10IX.8 ATOM 1756 CG GGU 233 -22.557 33.895 42.856 1.00 28.27 10IX.8 ATOM 1757 CG GGU 233 -22.550 35.196 41.016 1.00 27.81 10IX.8 ATOM 1758 CB GGU 233 -22.500 35.196 41.016 1.00 27.81 10IX.8 ATOM 1760 CD GGU 233 -22.500 35.196 41.016 1.00 27.81 10IX.8 ATOM 1760 CD GGU 233 -22.570 34.099 42.660 1.00 32.27 10IX.8 ATOM 1760 CD GGU 233 -22.570 34.099 42.660 1.00 32.27 10IX.8 ATOM 1760 CD GGU 233 -22.570 34.099 42.660 1.00 32.27 10IX.8 ATOM 1760 CD GGU 233 -22.570 35.196 41.016 1.00 27.81 10IX.8 ATOM 1760 CD GGU 233 -22.570 35.196 30.998 41.999 1.00 29.57 10IX.8 ATOM 1760 CD GGU 233 -22.570 35.19	ATOM					-22.463		45.870	1.00 30.93	1DIK1829
ATOM 1740 CA ASP 231 -20.493 36.131 46.494 1.00 37.66 10IXI8 ATOM 1740 CA ASP 231 -19.312 35.794 44.344 1.00 40.76 10IXI8 ATOM 1741 C ASP 231 -19.312 35.794 44.344 1.00 40.76 10IXI8 ATOM 1742 OA SP 231 -19.186 36.303 43.27 1.00 43.31 10IXI8 ATOM 1743 CB ASP 231 -18.138 36.827 46.313 1.00 39.61 10IXI8 ATOM 1744 CG ASP 231 -18.138 36.827 46.313 1.00 39.61 10IXI8 ATOM 1745 ODI ASP 231 -19.042 38.825 47.233 1.00 44.99 10IXI8 ATOM 1746 ODZ ASP 231 -17.254 37.976 48.202 1.00 49.54 10IXI8 ATOM 1746 ODZ ASP 231 -17.254 37.976 48.202 1.00 49.54 10IXI8 ATOM 1747 N THR 232 -19.324 34.479 44.544 1.00 38.28 10IXI8 ATOM 1748 CA THR 232 -19.328 31.679 42.416 1.00 32.21 10IXI8 ATOM 1749 C THR 232 -20.280 33.679 42.416 1.00 32.21 10IXI8 ATOM 1745 ODZ ASP 231 -17.254 37.976 48.202 1.00 43.35 10IXI8 ATOM 1745 CB THR 232 -19.324 34.479 44.548 1.00 34.25 10IXI8 ATOM 1745 CB THR 232 -19.324 34.479 42.416 1.00 32.21 10IXI8 ATOM 1745 CB THR 232 -19.324 34.479 42.416 1.00 32.21 10IXI8 ATOM 1745 CB THR 232 -19.210 32.075 44.010 1.00 34.35 10IXI8 ATOM 1751 CB THR 232 -19.210 32.075 44.010 1.00 34.55 10IXI8 ATOM 1753 CG2 THR 232 -18.074 31.895 44.895 1.00 26.25 10IXI8 ATOM 1755 CG GLU 233 -22.223 35.978 41.991 1.00 26.26 1 10IXI8 ATOM 1755 CG GLU 233 -22.223 35.978 41.991 1.00 26.26 1 10IXI8 ATOM 1756 CG GLU 233 -22.223 35.978 41.991 1.00 27.81 10IXI8 ATOM 1757 CG GLU 233 -22.223 35.998 41.991 1.00 27.81 10IXI8 ATOM 1758 CB GLU 233 -22.273 38.998 41.991 1.00 27.81 10IXI8 ATOM 1759 CG GLU 233 -22.273 38.997 43.010 1.00 38.65 10IXI8 ATOM 1760 CD GLU 233 -22.273 38.997 43.010 1.00 38.65 10IXI8 ATOM 1760 CD GLU 233 -22.273 38.997 43.010 1.00 37.81 10IXI8 ATOM 1761 CB GLU 233 -22.273 38.997 43.010 1.00 27.81 10IXI8 ATOM 1760 CD GLU 233 -22.273 38.997 43.010 1.00 27.81 10IXI8 ATOM 1761 CB GLU 233 -22.270 34.029 42.801 1.00 32.99 10IXI8 ATOM 1761 CB GLU 233 -22.270 34.029 42.801 1.00 27.51 10IXI8 ATOM 1760 CD GLU 233 -22.270 34.029 42.801 1.00 27.51 10IXI8 ATOM 1761 CB CT TR 235 -19.506 35.104 49.91 1.00 27.51 10IXI8 ATOM 1760 CD GLU 233 -22.270			CG2		230	-23.552	33.151	47.997		1DIK1830
ATOM 1740 CA ASP 231 -19.478 36.674 45.592 1.00 39.60 1DIXIB ATOM 1741 C ASP 231 -19.112 35.794 44.314 1.00 40.76 10741 C ASP 231 -19.112 35.794 44.314 1.00 40.76 10743 CA ASP 231 -19.118 36.303 43.227 1.00 43.31 1DIXIB ATOM 1744 CG ASP 231 -18.138 36.827 46.313 1.00 39.61 1DIXIB ATOM 1745 COI ASP 231 -18.147 37.956 47.321 1.00 44.99 1DIXIB ATOM 1746 CO ASP 231 -19.042 38.825 47.231 1.00 44.99 1DIXIB ATOM 1746 CO ASP 231 -19.042 38.825 47.231 1.00 44.99 1DIXIB ATOM 1747 N THR 232 -19.124 34.479 44.544 1.00 38.28 1DIXIB ATOM 1748 CA THR 232 -19.188 31.520 43.458 1.00 34.10 1DIXIB ATOM 1749 C THR 232 -20.280 33.679 42.416 1.00 32.21 1DIXIB ATOM 1750 C THR 232 -19.994 33.663 41.222 1.00 34.55 1DIXIB ATOM 1751 CB THR 232 -19.994 33.663 41.222 1.00 34.55 1DIXIB ATOM 1751 CB THR 232 -19.10 32.075 44.010 1.00 34.55 1DIXIB ATOM 1753 CG THR 232 -19.10 32.075 44.010 1.00 34.55 1DIXIB ATOM 1753 CG THR 232 -19.163 31.037 42.894 1.00 26.21 1DIXIB ATOM 1755 C GLU 233 -22.520 33.815 42.856 1.00 28.27 1DIXIB ATOM 1755 C GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIXIB ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIXIB ATOM 1757 C GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIXIB ATOM 1759 CG GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIXIB ATOM 1760 CD GLU 233 -22.530 38.893 44.298 1.00 41.41 1DIXIB ATOM 1761 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIXIB ATOM 1766 C GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIXIB ATOM 1766 C THR 234 -20.118 37.471 40.730 1.00 27.81 1DIXIB ATOM 1767 C THR 235 -19.513 37.512 38.409 1.00 27.50 1DIXIB ATOM 1761 CT GLU 233 -25.539 32.893 34.298 1.00 43.44 1DIXIB ATOM 1761 CT GLU 234 -20.118 37.471 40.730 1.00 27.81 1DIXIB ATOM 1767 C THR 235 -19.506 35.104 37.728 1.00 27.57 1DIXIB ATOM 1767 C THR 235 -19.506 35.104 37.728 1.00 27.57 1DIXIB ATOM 1767 C THR 235 -19.506 35.104 37.728 1.00 27.51 1DIXIB ATOM 1767 C THR 235 -19.506 35.104 37.728 1.00 28.27 1DIXIB ATOM 1769 CCZ THR 235 -17.513 35.272 39.329 1.00 26.75 1DIXIB ATOM 1778 C THR 235 -19.506 35.104 37.728 1.00 28.57 1DIXIB ATOM 1779 C	MOTA	1739	N	ASP	231	-20.493	36.131	46.494		1DIK1831
ATOM 1742 O ASP 231 -19.186 36.303 43.227 1.00 43.31 1DIK18 ATOM 1744 CG ASP 231 -18.138 36.827 46.313 1.00 44.99 1DIK18 ATOM 1745 001 ASP 231 -19.124 34.7956 47.321 1.00 44.99 1DIK18 ATOM 1746 002 ASP 231 -19.042 38.825 47.233 1.00 45.50 1DIK18 ATOM 1746 002 ASP 231 -17.254 37.976 48.202 1.00 49.54 1DIK18 ATOM 1747 N THR 232 -19.124 34.479 44.544 1.00 34.10 1DIK18 ATOM 1748 CA THR 232 -19.188 33.520 43.458 1.00 34.10 1DIK18 ATOM 1749 C THR 232 -19.188 33.520 43.458 1.00 34.10 1DIK18 ATOM 1750 O THR 232 -19.994 33.663 41.222 1.00 34.55 1DIK18 ATOM 1751 CB THR 232 -19.994 33.663 41.222 1.00 34.55 1DIK18 ATOM 1751 CB THR 232 -19.10 32.075 44.010 1.00 34.55 1DIK18 ATOM 1751 CB THR 232 -19.10 32.075 44.010 1.00 34.55 1DIK18 ATOM 1753 CG THR 232 -19.163 31.037 42.894 1.00 25.62 1DIK18 ATOM 1753 CG THR 232 -19.163 31.037 42.894 1.00 28.27 1DIK18 ATOM 1755 CG CLU 233 -22.550 35.196 41.016 1.00 27.81 1DIK18 ATOM 1755 C GLU 233 -22.550 35.196 41.016 1.00 27.81 1DIK18 ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIK18 ATOM 1757 C GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIK18 ATOM 1759 CG GLU 233 -22.500 35.196 41.016 1.00 32.29 1DIK18 ATOM 1760 CD GLU 233 -22.500 35.196 41.016 1.00 37.81 1DIK18 ATOM 1760 CD GLU 233 -22.500 35.196 41.016 1.00 37.81 1DIK18 ATOM 1766 CD GLU 233 -22.500 35.196 41.016 1.00 37.81 1DIK18 ATOM 1766 CD GLU 233 -22.500 35.196 41.016 1.00 37.81 1DIK18 ATOM 1766 CD GLU 233 -22.500 35.196 41.016 1.00 37.81 1DIK18 ATOM 1766 CD GLU 233 -22.500 35.196 41.016 1.00 32.29 1DIK18 ATOM 1766 CD GLU 233 -22.500 35.196 31.90 37.7 1DIK18 ATOM 1767 CB GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIK18 ATOM 1766 CD GLU 233 -25.539 32.893 34.299 1.00 26.76 1DIK18 ATOM 1766 CD GLU 233 -25.539 32.893 34.298 1.00 41.41 1DIK18 ATOM 1767 CB VAL 234 -20.138 37.512 38.409 1.00 27.51 1DIK18 ATOM 1767 CB VAL 234 -20.139 30.501 1DIK18 ATOM 1768 CC TAR 235 -19.506 35.104 37.728 1.00 27.51 1DIK18 ATOM 1769 CG VAL 234 -20.5069 39.790 40.719 1.00 27.61 1DIK18 ATOM 1769 CG VAL 234 -20.5069 39.790 40.719 1.00 27.61 1DIK18			CA							1DIK1832
ATOM 1744 CG ASP 231 -18.138 36.827 46.313 1.00 39.61 10IX18 ATOM 1745 001 ASP 231 -19.042 38.825 47.323 1.00 44.99 10IX18 ATOM 1746 002 ASP 231 -17.254 37.976 48.202 1.00 49.54 10IX18 ATOM 1747 N THR 232 -19.324 34.479 44.544 1.00 38.28 10IX18 ATOM 1748 CA THR 232 -19.188 33.520 43.458 1.00 34.10 10IX18 ATOM 1749 C THR 232 -20.280 33.679 42.416 1.00 38.28 10IX18 ATOM 1750 O THR 232 -19.994 33.653 41.222 1.00 34.15 10IX18 ATOM 1751 CB THR 232 -19.210 32.075 44.010 1.00 34.37 10IX18 ATOM 1752 OGI THR 232 -19.210 32.075 44.010 1.00 34.37 10IX18 ATOM 1753 CG2 THR 232 -19.163 31.037 42.894 1.00 26.21 10IX18 ATOM 1754 N GLU 233 -22.527 33.835 42.886 1.00 26.21 10IX18 ATOM 1755 C G GLU 233 -22.500 35.196 41.919 1.00 29.61 10IX18 ATOM 1755 C G GLU 233 -22.500 35.196 41.016 1.00 30.27 10IX18 ATOM 1758 CB GLU 233 -22.500 35.196 41.016 1.00 27.81 10IX18 ATOM 1758 CB GLU 233 -22.500 35.196 41.016 1.00 27.81 10IX18 ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 32.27 10IX18 ATOM 1756 C GLU 233 -22.500 35.196 41.919 1.00 29.61 10IX18 ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 30.27 10IX18 ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 30.27 10IX18 ATOM 1760 CD GLU 233 -22.500 35.196 41.016 1.00 30.27 10IX18 ATOM 1760 CD GLU 233 -22.516 31.961 41.919 1.00 29.61 10IX18 ATOM 1760 CD GLU 233 -22.516 31.961 41.919 1.00 30.47 10IX18 ATOM 1761 OF GLU 233 -22.516 31.961 41.919 1.00 30.47 10IX18 ATOM 1762 OF GLU 233 -22.516 31.961 41.919 1.00 29.25 10IX18 ATOM 1766 C VAL 234 -21.916 36.270 41.529 1.00 30.27 10IX18 ATOM 1767 CB VAL 234 -21.916 36.270 41.529 1.00 26.78 10IX18 ATOM 1766 C VAL 234 -21.918 37.471 40.730 1.00 27.53 10IX18 ATOM 1766 C VAL 234 -22.079 37.131 39.555 1.00 28.07 10IX18 ATOM 1766 C VAL 234 -20.779 37.131 39.555 1.00 28.07 10IX18 ATOM 1767 CB VAL 234 -20.779 37.131 39.555 1.00 28.07 10IX18 ATOM 1768 CG VAL 234 -20.779 37.131 39.555 1.00 27.55 10IX18 ATOM 1768 CG VAL 234 -20.779 37.138 39.80 1.00 27.53 10IX18 ATOM 1768 CG VAL 234 -20.779 37.131 39.555 1.00 23.275 10IX18 ATOM 1778 C TYR 236 -20.575 34.406 38.2										1DIX1833
ATOM 1745 OOI ASP 231 -18.147 37.956 47.321 1.00 44.99 1DIX18 ATOM 1745 OOI ASP 231 -19.042 38.825 47.233 1.00 45.50 1DIX18 ATOM 1746 OO2 ASP 231 -17.254 37.976 48.202 1.00 49.54 1DIX18 ATOM 1747 N THR 232 -19.188 33.520 43.458 1.00 38.28 1DIX18 ATOM 1748 CA THR 232 -19.188 33.520 43.458 1.00 34.10 1DIX18 ATOM 1749 C THR 232 -19.188 33.520 43.458 1.00 34.10 1DIX18 ATOM 1750 O THR 232 -19.994 33.663 41.222 1.00 34.55 1DIX18 ATOM 1751 CB THR 232 -19.994 33.663 41.222 1.00 34.55 1DIX18 ATOM 1752 OGI THR 232 -19.20 32.075 44.010 1.00 34.37 1DIX18 ATOM 1753 CCZ THR 232 -19.163 31.037 42.894 1.00 35.55 1DIX18 ATOM 1755 CA GLU 233 -22.527 33.835 42.856 1.00 35.55 1DIX18 ATOM 1755 CA GLU 233 -22.520 35.196 41.919 1.00 29.61 1DIX18 ATOM 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIX18 ATOM 1758 CB GLU 233 -22.923 35.162 39.872 1.00 30.27 1DIX18 ATOM 1758 CG GLU 233 -22.923 35.162 41.010 32.29 1DIX18 ATOM 1756 C GLU 233 -22.923 35.162 41.010 32.29 1DIX18 ATOM 1760 CD GLU 233 -22.923 35.162 41.010 32.29 1DIX18 ATOM 1761 OEI GLU 233 -23.970 34.029 42.660 1.00 32.29 1DIX18 ATOM 1761 OEI GLU 233 -25.519 23.893 44.288 1.00 41.41 1DIX18 ATOM 1762 OEZ GLU 233 -25.539 32.893 44.288 1.00 41.41 1DIX18 ATOM 1766 C VAL 234 -21.916 36.270 41.529 1.00 34.47 1DIX18 ATOM 1767 OR VAL 234 -21.916 36.270 41.529 1.00 27.81 1DIX18 ATOM 1767 CB VAL 234 -21.916 36.270 41.529 1.00 27.52 1DIX18 ATOM 1767 CB VAL 234 -21.918 37.471 40.730 1.00 27.61 1DIX18 ATOM 1767 CB VAL 234 -20.979 37.131 39.555 1.00 28.07 1DIX18 ATOM 1767 CB VAL 234 -21.918 39.99 39.806 1.00 27.61 1DIX18 ATOM 1768 CC VAL 234 -20.979 37.131 39.555 1.00 28.07 1DIX18 ATOM 1768 CG VAL 234 -20.979 37.131 39.555 1.00 28.07 1DIX18 ATOM 1768 CG VAL 234 -20.979 37.131 39.555 1.00 28.07 1DIX18 ATOM 1768 CG VAL 234 -20.979 37.131 39.555 1.00 28.07 1DIX18 ATOM 1768 CG VAL 234 -20.979 37.131 39.555 1.00 28.77 1DIX18 ATOM 1770 N THR 235 -19.998 35.065 36.555 1.00 27.05 1DIX18 ATOM 1771 CA THR 235 -19.998 35.065 36.505 1.00 27.79 1DIX18 ATOM 1778 C THR 235 -19.998 35.065 36.00 31.65 1.										1DIK1834
ATOM 1745 001 ASP 231 -19.042 38.825 47.233 1.00 45.50 10IK18 ATOM 1746 002 ASP 231 -17.254 37.976 48.202 1.00 49.54 ATOM 1748 CA THR 232 -19.124 34.479 44.544 1.00 38.28 10IK18 ATOM 1748 CA THR 232 -19.188 33.520 43.458 1.00 34.10 10IK18 ATOM 1749 C THR 232 -20.280 33.679 42.416 1.00 32.21 10IK18 ATOM 1750 0 THR 232 -19.994 33.663 41.022 1.00 34.55 10IK18 ATOM 1751 CB THR 232 -19.994 33.663 41.022 1.00 34.55 10IK18 ATOM 1752 0G1 THR 232 -19.10 32.075 44.010 1.00 34.37 10IK18 ATOM 1753 CG2 THR 232 -19.163 31.037 42.894 1.00 26.21 10IK18 ATOM 1754 N GLU 233 -21.525 33.835 42.856 1.00 26.21 10IK18 ATOM 1755 CA GLU 233 -22.503 33.978 41.019 1.00 29.61 10IK18 ATOM 1756 C GLU 233 -22.503 35.196 41.016 1.00 27.81 10IK18 ATOM 1757 O GLU 233 -22.503 35.196 41.016 1.00 27.81 10IK18 ATOM 1758 CB GLU 233 -22.923 35.162 39.872 1.00 30.27 10IK18 ATOM 1759 CG GLU 233 -22.923 35.162 39.872 1.00 32.29 10IK18 ATOM 1760 CD GLU 233 -22.533 32.893 44.298 1.00 41.41 10IK18 ATOM 1761 OEI GLU 233 -22.533 32.893 44.298 1.00 41.41 10IK18 ATOM 1763 N VAL 234 -21.916 36.270 44.188 1.00 41.44 10IK18 ATOM 1766 C VAL 234 -22.118 37.471 40.730 1.00 27.81 10IK18 ATOM 1766 N VAL 234 -21.916 36.270 44.188 1.00 27.81 10IK18 ATOM 1766 N VAL 234 -21.118 37.471 40.730 1.00 27.81 10IK18 ATOM 1766 N VAL 234 -21.118 37.471 40.730 1.00 27.81 10IK18 ATOM 1766 N VAL 234 -21.118 37.471 40.730 1.00 27.81 10IK18 ATOM 1767 C THR 235 -19.712 36.383 39.890 1.00 27.61 10IK18 ATOM 1767 C THR 235 -19.712 36.383 39.890 1.00 27.61 10IK18 ATOM 1767 C THR 235 -19.712 36.383 39.890 1.00 27.79 10IK18 ATOM 1767 C THR 235 -19.53 13.897 43.990 1.00 27.79 10IK18 ATOM 1767 C THR 235 -19.513 13.998 39.806 1.00 27.79 10IK18 ATOM 1767 C THR 235 -19.506 31.961 39.890 1.00 27.79 10IK18 ATOM 1768 C THR 235 -19.506 31.961 39.890 1.00 27.79 10IK18 ATOM 1768 C THR 235 -19.506 31.968 39.890 1.00 27.79 10IK18 ATOM 1768 C THR 235 -19.506 31.968 39.890 1.00 27.79 10IK18 ATOM 1768 C THR 235 -19.506 31.968 39.890 1.00 27.79 10IK18 ATOM 1768 C THR 235 -19.506 31.968 39.890 1.00 28.57 10IK1										1DIX1835
ATOM 1746 OO2 ASP 231 -17.254 37.976 48.202 1.00 49.54 1DIK18 ATOM 1747 N THR 232 -19.188 33.520 43.458 1.00 38.28 1DIK18 ATOM 1748 CA THR 232 -19.188 33.520 43.458 1.00 34.10 1DIK18 ATOM 1749 C THR 232 -20.280 33.679 42.416 1.00 32.21 1DIK18 ATOM 1750 O THR 232 -19.994 33.663 41.222 1.00 34.55 1DIK18 ATOM 1751 CB THR 232 -19.994 33.663 41.222 1.00 34.55 1DIK18 ATOM 1752 OG1 THR 232 -19.210 32.075 44.010 1.00 34.37 1DIK18 ATOM 1753 CC2 THR 232 -19.163 31.896 44.856 1.00 35.55 1DIK18 ATOM 1753 CC2 THR 232 -19.163 31.037 42.894 1.00 26.21 1DIK18 ATOM 1755 CA GLU 233 -22.500 35.196 44.856 1.00 35.55 1DIK18 ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 29.61 1DIK18 ATOM 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIK18 ATOM 1758 CB GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIK18 ATOM 1759 CG GLU 233 -22.503 35.162 39.872 1.00 30.27 1DIK18 ATOM 1760 CD GLU 233 -23.970 34.029 42.660 1.00 32.29 1DIK18 ATOM 1761 O21 GLU 233 -25.516 33.897 44.298 1.00 41.41 1DIK18 ATOM 1762 O22 GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIK18 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 27.81 1DIK18 ATOM 1764 CA VAL 234 -21.916 36.270 41.529 1.00 27.81 1DIK18 ATOM 1766 C VAL 234 -21.916 36.270 41.529 1.00 27.81 1DIK18 ATOM 1767 CB VAL 234 -21.918 37.471 40.730 1.00 27.81 1DIK18 ATOM 1768 CC VAL 234 -21.918 37.471 40.730 1.00 27.81 1DIK18 ATOM 1769 CG VAL 234 -20.779 37.131 39.555 1.00 28.07 1DIK18 ATOM 1767 CB VAL 234 -21.138 37.471 40.730 1.00 27.53 1DIK18 ATOM 1767 CB VAL 234 -20.779 37.131 39.555 1.00 28.07 1DIK18 ATOM 1768 CC VAL 234 -20.779 37.131 39.555 1.00 28.07 1DIK18 ATOM 1767 CB VAL 234 -21.138 37.471 40.0730 1.00 27.53 1DIK18 ATOM 1767 CB VAL 234 -21.138 37.471 40.0730 1.00 27.53 1DIK18 ATOM 1768 CC VAL 234 -20.779 37.131 39.555 1.00 28.07 1DIK18 ATOM 1768 CC VAL 234 -20.669 39.790 40.072 0.00 27.61 1DIK18 ATOM 1768 CC VAL 234 -20.669 39.790 40.072 0.00 27.51 1DIK18 ATOM 1770 N THR 235 -19.566 33.998 39.806 1.00 23.62 1DIK18 ATOM 1771 CA THR 235 -19.566 33.998 39.806 1.00 23.77 1DIK18 ATOM 1778 C THR 235 -19.566 33.99										1DIX1836
ATOM 1748 CA THR 232 -19.324 34.479 44.548 1.00 38.28 IDIKIR ATOM 1748 CA THR 232 -20.280 33.570 42.416 1.00 34.10 IDIKIR ATOM 1750 0 THR 232 -20.280 33.679 42.416 1.00 34.55 IDIKIR ATOM 1750 0 THR 232 -19.994 33.663 41.222 1.00 34.55 IDIKIR ATOM 1751 CB THR 232 -19.940 33.663 41.222 1.00 34.55 IDIKIR ATOM 1751 CB THR 232 -19.210 32.075 44.010 1.00 34.55 IDIKIR ATOM 1752 OGI THR 232 -19.10 32.075 44.010 1.00 34.55 IDIKIR ATOM 1753 CG2 THR 232 -19.163 31.037 42.894 1.00 26.21 IDIKIR ATOM 1755 CA GLU 233 -21.525 33.835 42.894 1.00 26.21 IDIKIR ATOM 1755 CA GLU 233 -22.503 35.196 41.016 1.00 27.81 IDIKIR ATOM 1756 C GLU 233 -22.503 35.196 41.016 1.00 27.81 IDIKIR ATOM 1757 O GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIKIR ATOM 1758 CB GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIKIR ATOM 1759 CG GLU 233 -22.533 32.893 44.2898 1.00 34.41 IDIKIR ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 38.65 IDIKIR ATOM 1761 CEI GLU 233 -25.539 32.893 44.298 1.00 38.65 IDIKIR ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 39.47 IDIKIR ATOM 1763 N VAL 234 -21.916 36.270 44.529 1.00 26.78 IDIKIR ATOM 1766 C VAL 234 -21.916 36.270 44.529 1.00 27.81 IDIKIR ATOM 1766 C VAL 234 -21.916 37.471 40.730 1.00 27.81 IDIKIR ATOM 1766 C VAL 234 -22.1916 37.31 37.532 38.409 1.00 27.81 IDIKIR ATOM 1766 C VAL 234 -22.1916 37.31 37.532 38.409 1.00 27.81 IDIKIR ATOM 1766 C VAL 234 -22.0779 37.131 39.555 1.00 28.07 IDIKIR ATOM 1767 C VAL 234 -22.0779 37.131 39.555 1.00 28.07 IDIKIR ATOM 1767 C VAL 234 -22.139 38.631 44.599 1.00 27.761 IDIKIR ATOM 1767 C VAL 234 -22.139 38.631 44.599 1.00 27.761 IDIKIR ATOM 1767 C VAL 234 -22.139 38.631 44.599 1.00 27.761 IDIKIR ATOM 1767 C VAL 234 -22.139 38.631 44.599 1.00 27.761 IDIKIR ATOM 1767 C VAL 234 -22.139 38.631 4.599 1.00 27.761 IDIKIR ATOM 1767 C VAL 234 -22.139 38.631 4.599 1.00 27.761 IDIKIR ATOM 1767 C VAL 234 -22.139 38.631 4.599 1.00 27.75 IDIKIR ATOM 1767 C THR 235 -19.506 35.104 37.728 1.00 28.27 IDIKIR ATOM 1767 C THR 235 -17.513 35.272 39.399 1.00 25.77 IDIKIR ATOM 1779 C THR 235 -12.506 33		1/45						47.233		
ATOM 1748 CA THR 232 -19.188 33.520 43.458 1.00 34.10 1DIK18 ATOM 1750 O THR 232 -20.280 33.679 42.416 1.00 32.21 1DIK18 ATOM 1750 O THR 232 -19.994 33.663 41.222 1.00 34.55 1DIK18 ATOM 1751 CB THR 232 -19.210 32.075 44.010 1.00 34.37 1DIK18 ATOM 1751 CG THR 232 -19.210 32.075 44.010 1.00 34.37 1DIK18 ATOM 1752 OG1 THR 232 -19.163 31.037 42.894 1.00 35.55 1DIK18 ATOM 1753 CG2 THR 232 -19.163 31.037 42.894 1.00 26.21 1DIK18 ATOM 1755 CA GLU 233 -22.537 33.835 42.856 1.00 28.27 1DIK18 ATOM 1755 CA GLU 233 -22.530 35.196 41.016 1.00 27.81 1DIK18 ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIK18 ATOM 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIK18 ATOM 1758 CA GLU 233 -22.923 35.162 39.872 1.00 30.27 1DIK18 ATOM 1758 CB GLU 233 -22.503 32.893 44.298 1.00 41.41 1DIK18 ATOM 1760 CD GLU 233 -22.539 32.893 44.298 1.00 41.41 1DIK18 ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIK18 ATOM 1761 OEI GLU 233 -25.516 33.897 45.041 1.00 39.47 1DIK18 ATOM 1762 OEZ GLU 233 -25.516 33.897 45.041 1.00 43.44 1DIK18 ATOM 1762 OEZ GLU 233 -26.366 31.961 44.188 1.00 43.44 1DIK18 ATOM 1762 OEZ GLU 233 -25.116 33.897 45.041 1.00 39.47 1DIK18 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 27.81 1DIK18 ATOM 1763 C VAL 234 -21.916 36.270 41.529 1.00 27.81 1DIK18 ATOM 1765 C VAL 234 -21.918 36.270 41.529 1.00 27.81 1DIK18 ATOM 1766 C VAL 234 -21.718 37.471 40.730 1.00 27.81 1DIK18 ATOM 1766 C VAL 234 -21.718 37.471 40.730 1.00 27.65 1DIK18 ATOM 1767 C VAL 234 -22.139 38.631 44.599 1.00 27.65 1DIK18 ATOM 1767 C VAL 234 -22.139 38.631 44.599 1.00 27.65 1DIK18 ATOM 1767 C VAL 234 -22.139 38.631 44.599 1.00 27.65 1DIK18 ATOM 1767 C VAL 234 -22.139 38.631 44.599 1.00 27.75 1DIK18 ATOM 1767 C VAL 234 -22.02 39.134 42.574 1.00 23.62 1DIK18 ATOM 1767 C VAL 234 -22.02 39.134 42.574 1.00 23.62 1DIK18 ATOM 1767 C VAL 234 -22.02 39.134 2.574 1.00 23.62 1DIK18 ATOM 1767 C VAL 234 -22.02 39.314 1.09 37.72 10.00 27.75 1DIK18 ATOM 1776 C C VAL 234 -22.50 39.37 10.00 27.75 1DIK18 ATOM 1776 C C VAL 234 -22.50 39.39 39.30 1.00 27.75		1740							1.00 49.34	10141030
ATOM 1750 O THR 232 -20.280 33.679 42.416 1.00 32.21 1DIKIR ATOM 1750 O THR 232 -19.994 33.673 41.222 1.00 34.55 1DIKIR ATOM 1751 CB THR 232 -19.910 32.075 44.010 1.00 34.35 1DIKIR ATOM 1753 CG2 THR 232 -19.163 31.037 42.896 1.00 26.21 1DIKIR ATOM 1753 CG2 THR 232 -19.163 31.037 42.896 1.00 26.21 1DIKIR ATOM 1755 CA GLU 233 -21.525 33.835 42.856 1.00 28.27 1DIKIR ATOM 1755 CA GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIKIR ATOM 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 1DIKIR ATOM 1757 O GLU 233 -22.923 35.162 39.872 1.00 30.27 1DIKIR ATOM 1758 CB GLU 233 -22.937 35.162 39.872 1.00 30.27 1DIKIR ATOM 1759 CG GLU 233 -22.537 34.029 42.6660 1.00 32.29 1DIKIR ATOM 1750 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIKIR ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIKIR ATOM 1761 CD GLU 233 -25.516 33.897 45.041 1.00 39.47 1DIKIR ATOM 1761 CD GLU 233 -25.516 33.897 45.041 1.00 39.47 1DIKIR ATOM 1762 CD GLU 233 -22.516 33.897 45.041 1.00 39.47 1DIKIR ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 1DIKIR ATOM 1764 CA VAL 234 -21.916 36.270 41.529 1.00 26.78 1DIKIR ATOM 1765 C VAL 234 -22.1918 37.471 40.730 1.00 27.81 1DIKIR ATOM 1766 CD VAL 234 -22.1918 37.532 38.409 1.00 27.61 1DIKIR ATOM 1767 CB VAL 234 -22.1918 37.532 38.409 1.00 27.61 1DIKIR ATOM 1767 CB VAL 234 -22.1918 38.631 41.599 1.00 29.25 1DIKIR ATOM 1767 CB VAL 234 -22.202 39.114 42.574 1.00 23.62 1DIKIR ATOM 1767 CB VAL 234 -22.1031 39.505 1.00 28.07 1DIKIR ATOM 1767 CB VAL 234 -22.202 39.114 42.574 1.00 23.62 1DIKIR ATOM 1767 CB VAL 234 -22.206 39.790 40.719 1.00 26.761 1DIKIR ATOM 1770 N THR 235 -19.506 35.104 37.728 1.00 27.53 1DIKIR ATOM 1770 N THR 235 -19.506 35.104 37.728 1.00 28.27 1DIKIR ATOM 1770 C THR 235 -19.506 35.104 37.728 1.00 28.27 1DIKIR ATOM 1771 CA THR 235 -19.506 35.104 37.728 1.00 28.57 1DIKIR ATOM 1773 C THR 235 -19.506 35.104 37.728 1.00 28.77 1DIKIR ATOM 1778 CA THR 235 -19.506 35.104 37.728 1.00 28.27 1DIKIR ATOM 1778 CA THR 235 -19.508 39.893 39.876 1.00 28.51 1DIKIR ATOM 1778 CA THR 235 -12.258 39.39 39.876										10171019
ATOM 1750 O THR 232 -19.994 33.663 41.222 1.00 34.55 1DIK18 ATOM 1751 CB THR 232 -19.210 32.075 44.010 1.00 34.37 1DIK18 ATOM 1752 OG1 THR 232 -18.074 31.896 44.856 1.00 35.55 1DIK18 ATOM 1753 CG2 THR 232 -19.163 31.037 42.894 1.00 26.21 1DIK18 ATOM 1754 N GLU 233 -21.525 33.835 42.856 1.00 28.27 1DIK18 ATOM 1755 C GLU 233 -22.507 33.938 41.939 1.00 29.61 1DIK18 ATOM 1755 C GLU 233 -22.507 35.196 41.016 1.00 27.81 1DIK18 ATOM 1757 O GLU 233 -22.507 35.196 41.016 1.00 27.81 1DIK18 ATOM 1758 CB GLU 233 -22.923 35.162 39.872 1.00 30.27 1DIK18 ATOM 1759 CG GLU 233 -22.537 34.029 42.660 1.00 32.29 1DIK18 ATOM 1759 CG GLU 233 -24.262 32.784 43.483 1.00 38.65 1DIK18 ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIK18 ATOM 1761 OE1 GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIK18 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 43.44 1DIK18 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 1DIK18 ATOM 1764 CA VAL 234 -21.718 37.471 40.730 1.00 27.81 1DIK18 ATOM 1765 C VAL 234 -20.779 37.131 39.555 1.00 28.07 1DIK18 ATOM 1766 O VAL 234 -21.718 37.471 40.730 1.00 27.61 1DIK18 ATOM 1766 CG VAL 234 -21.718 37.471 40.730 1.00 27.61 1DIK18 ATOM 1766 CG VAL 234 -21.718 37.471 40.730 1.00 27.61 1DIK18 ATOM 1766 CG VAL 234 -21.718 37.471 40.730 1.00 27.61 1DIK18 ATOM 1766 CG VAL 234 -22.020 39.114 42.574 1.00 23.62 1DIK18 ATOM 1766 CG VAL 234 -22.020 39.114 42.574 1.00 23.62 1DIK18 ATOM 1767 CB VAL 234 -22.020 39.114 42.574 1.00 23.62 1DIK18 ATOM 1767 CB VAL 234 -22.020 39.114 42.574 1.00 23.62 1DIK18 ATOM 1767 CB VAL 234 -22.020 39.114 42.574 1.00 23.62 1DIK18 ATOM 1767 CB VAL 234 -22.020 39.114 42.574 1.00 23.62 1DIK18 ATOM 1767 CB VAL 234 -22.020 39.114 42.574 1.00 23.62 1DIK18 ATOM 1768 CG1 VAL 234 -22.036 39.830 1.00 27.53 1DIK18 ATOM 1768 CG2 TRR 235 -17.513 35.272 39.329 1.00 26.76 1DIK18 ATOM 1768 CG2 TRR 235 -17.513 35.272 39.329 1.00 26.76 1DIK18 ATOM 1778 CA TYR 236 -22.036 33.583 39.830 1.00 27.53 1DIK18 ATOM 1778 CA TYR 236 -22.04 34.490 36.171 1.00 39.27 1DIK18 ATOM 1788 CB1 TYR 236 -22.037 30.838 39.50								43.436	1.00 34.10	
ATOM 1751 CB THR 232 -19.210 32.075 44.010 1.00 34.37 IDIKIB ATOM 1752 CGC THR 232 -19.163 31.037 42.894 1.00 26.21 IDIKIB ATOM 1753 CG2 THR 232 -19.163 31.037 42.894 1.00 26.21 IDIKIB ATOM 1755 CA GLU 233 -22.503 33.835 42.856 1.00 29.61 IDIKIB ATOM 1755 CA GLU 233 -22.503 35.196 41.016 1.00 27.81 IDIKIB ATOM 1755 C GLU 233 -22.503 35.196 41.016 1.00 27.81 IDIKIB ATOM 1757 C GLU 233 -22.903 35.162 39.872 1.00 30.27 IDIKIB ATOM 1758 CB GLU 233 -23.970 34.029 42.660 1.00 32.29 IDIKIB ATOM 1759 CG GLU 233 -24.262 32.784 43.483 1.00 38.65 IDIKIB ATOM 1760 CD GLU 233 -25.513 32.893 44.298 1.00 41.41 IDIKIB ATOM 1760 CD GLU 233 -25.516 33.897 45.041 1.00 39.47 IDIKIB ATOM 1761 CB1 GLU 233 -25.716 33.897 45.041 1.00 39.47 IDIKIB ATOM 1762 CB2 GLU 233 -26.366 31.961 44.188 1.00 43.44 IDIKIB ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 IDIKIB ATOM 1764 CA VAL 234 -21.916 36.270 41.529 1.00 26.78 IDIKIB ATOM 1765 C VAL 234 -21.718 37.471 40.730 1.00 27.81 IDIKIB ATOM 1766 C VAL 234 -21.718 37.471 40.730 1.00 27.61 IDIKIB ATOM 1766 C TAL 234 -21.013 37.532 38.409 1.00 27.61 IDIKIB ATOM 1769 CG VAL 234 -21.031 37.532 38.409 1.00 27.61 IDIKIB ATOM 1769 CG VAL 234 -21.031 37.532 38.409 1.00 27.61 IDIKIB ATOM 1769 CG VAL 234 -21.031 37.532 38.409 1.00 27.61 IDIKIB ATOM 1769 CG VAL 234 -21.031 37.532 38.409 1.00 27.61 IDIKIB ATOM 1769 CG VAL 234 -22.02 39.114 42.574 1.00 23.62 IDIKIB ATOM 1770 N THR 235 -19.512 36.383 39.830 1.00 27.57 IDIKIB ATOM 1771 CA THR 235 -19.512 36.383 39.830 1.00 27.57 IDIKIB ATOM 1771 N THR 235 -19.506 35.104 37.728 1.00 28.27 IDIKIB ATOM 1773 O THR 235 -17.513 35.272 39.329 1.00 27.55 IDIKIB ATOM 1773 C THR 235 -19.506 35.104 37.728 1.00 27.05 IDIKIB ATOM 1773 C THR 235 -17.513 35.272 39.329 1.00 27.05 IDIKIB ATOM 1778 CG THR 235 -17.513 35.272 39.329 1.00 27.05 IDIKIB ATOM 1778 CG THR 235 -16.859 36.104 40.416 1.00 27.79 IDIKIB ATOM 1778 CG THR 235 -16.859 36.104 40.416 1.00 27.79 IDIKIB ATOM 1778 CG THR 235 -16.859 36.104 40.416 1.00 27.79 IDIKIB ATOM 1778 CG THR 235 -16.859 36.104 40.41								41 222		
ATOM 1752 OG1 THR 232 -18.074 31.896 44.856 1.00 35.55 IDIK18 ATOM 1754 N GLU 233 -21.525 33.835 42.856 1.00 28.27 IDIK18 ATOM 1755 CA GLU 233 -22.637 31.978 41.919 1.00 29.61 IDIK18 ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 IDIK18 ATOM 1757 O GLU 233 -22.500 35.196 41.016 1.00 27.81 IDIK18 ATOM 1758 CB GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIK18 ATOM 1759 CG GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIK18 ATOM 1759 CG GLU 233 -24.262 32.784 43.483 1.00 38.65 IDIK18 ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 IDIK18 ATOM 1761 OE1 GLU 233 -25.539 32.893 44.298 1.00 41.41 IDIK18 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 41.41 IDIK18 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 IDIK18 ATOM 1764 CA VAL 234 -21.916 36.270 41.529 1.00 26.78 IDIK18 ATOM 1765 C VAL 234 -21.718 37.471 40.730 1.00 27.81 IDIK18 ATOM 1766 C VAL 234 -21.718 37.471 40.730 1.00 27.81 IDIK18 ATOM 1766 CB VAL 234 -21.139 38.631 41.599 1.00 26.00 IDIK18 ATOM 1766 CB VAL 234 -21.139 38.631 41.599 1.00 26.00 IDIK18 ATOM 1769 CG CVAL 234 -22.020 39.114 42.574 1.00 23.62 IDIK18 ATOM 1769 CG2 VAL 234 -22.020 39.114 42.574 1.00 23.62 IDIK18 ATOM 1769 CG2 VAL 234 -22.020 39.114 42.574 1.00 23.62 IDIK18 ATOM 1770 N THR 235 -19.506 35.104 37.728 1.00 28.27 IDIK18 ATOM 1771 CA THR 235 -19.506 35.104 37.728 1.00 28.27 IDIK18 ATOM 1773 C THR 235 -19.506 35.104 37.728 1.00 28.53 IDIK18 ATOM 1777 C THR 235 -19.506 35.104 37.728 1.00 28.57 IDIK18 ATOM 1777 C THR 235 -19.506 35.104 37.728 1.00 28.77 IDIK18 ATOM 1777 C THR 235 -19.506 35.104 37.728 1.00 28.57 IDIK18 ATOM 1778 C TYR 236 -22.027 39.139 39.870 1.00 27.79 IDIK18 ATOM 1776 C TYR 236 -22.03 39.83 39.870 1.00 27.79 IDIK18 ATOM 1777 C TYR 236 -22.03 39.83 39.870 1.00 27.79 IDIK18 ATOM 1778 C TYR 236 -22.04 44.90 36.171 1.00 28.53 IDIK18 ATOM 1778 C TYR 236 -22.05 57 34.406 38.129 1.00 27.79 IDIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.91 IDIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.17 IDIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27						-19.210			1.00 34.37	
ATOM 1753 CG2 THR 212 -19.163 31.037 42.894 1.00 26.21 IDIKI8 ATOM 1755 CA GLU 233 -21.525 33.835 42.856 1.00 28.27 IDIKI8 ATOM 1755 CA GLU 233 -22.500 35.196 1.91 1.00 29.61 IDIKI8 ATOM 1757 O GLU 233 -22.500 35.196 1.00 27.81 IDIKI8 ATOM 1757 O GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIKI8 ATOM 1759 CG GLU 233 -23.970 34.029 42.660 1.00 32.29 IDIKI8 ATOM 1759 CG GLU 233 -23.970 34.029 42.660 1.00 32.29 IDIKI8 ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 IDIKI8 ATOM 1761 OEI GLU 233 -25.539 32.893 44.298 1.00 41.41 IDIKI8 ATOM 1762 OE2 GLU 233 -25.539 32.893 44.298 1.00 41.41 IDIKI8 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 43.44 IDIKI8 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 IDIKI8 ATOM 1765 C VAL 234 -21.916 36.270 41.529 1.00 27.61 IDIKI8 ATOM 1766 CO VAL 234 -20.779 37.131 39.555 1.00 28.07 IDIKI8 ATOM 1766 CO VAL 234 -20.779 37.131 39.555 1.00 27.61 IDIKI8 ATOM 1766 CG1 VAL 234 -21.139 38.631 41.599 1.00 27.61 IDIKI8 ATOM 1766 CG1 VAL 234 -21.139 38.631 41.599 1.00 27.61 IDIKI8 ATOM 1769 CG2 VAL 234 -22.202 39.114 42.574 1.00 23.62 IDIKI8 ATOM 1770 N THR 235 -19.712 36.883 99.830 1.00 25.71 IDIKI8 ATOM 1771 CA THR 235 -19.712 36.883 99.830 1.00 25.71 IDIKI8 ATOM 1771 CA THR 235 -19.712 36.883 99.830 1.00 27.53 IDIKI8 ATOM 1773 O THR 235 -19.506 35.104 37.723 1.00 27.05 IDIKI8 ATOM 1773 CA THR 235 -19.506 35.104 37.723 1.00 27.05 IDIKI8 ATOM 1777 CA THR 235 -19.506 35.104 37.723 1.00 27.05 IDIKI8 ATOM 1777 CA THR 235 -19.506 35.104 37.723 1.00 27.73 IDIKI8 ATOM 1778 CG THR 235 -17.866 33.998 39.873 1.00 27.79 IDIKI8 ATOM 1778 CG THR 235 -17.866 33.998 39.873 1.00 27.79 IDIKI8 ATOM 1778 CG THR 235 -17.866 33.998 39.873 1.00 28.571 IDIKI8 ATOM 1778 CG THR 235 -12.508 35.104 37.723 1.00 27.79 IDIKI8 ATOM 1778 CG THR 235 -12.873 31.589 31.577 37.188 1.00 27.79 IDIKI8 ATOM 1778 CG THR 235 -12.873 33.577 37.188 1.00 27.79 IDIKI8 ATOM 1778 CG THR 235 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1785 CG THR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1788 OH THR 236 -20.575 34.4						-18.074			1.00 35.55	1DIK1844
ATOM 1754 N GLU 233 -21.525 33.835 42.856 1.00 28.27 IDIK18 ATOM 1755 CA GLU 233 -22.507 33.978 41.919 1.00 29.61 ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 ATOM 1757 O GLU 233 -22.507 34.029 42.660 1.00 30.27 IDIK18 ATOM 1758 CB GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIK18 ATOM 1759 CG GLU 233 -24.262 32.784 43.483 1.00 38.65 IDIK18 ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 ATOM 1761 OEI GLU 233 -25.539 32.893 44.298 1.00 41.41 ATOM 1762 OE2 GLU 233 -25.716 33.897 45.041 1.00 39.47 IDIK18 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 ATOM 1765 C VAL 234 -21.718 37.471 40.730 1.00 27.81 ATOM 1766 O VAL 234 -21.718 37.471 40.730 1.00 27.61 ATOM 1766 C VAL 234 -21.031 37.532 38.409 1.00 27.61 ATOM 1767 CB VAL 234 -21.031 37.532 38.409 1.00 27.61 ATOM 1769 CG2 VAL 234 -22.0669 39.790 40.719 1.00 26.00 IDIK18 ATOM 1769 CG2 VAL 234 -22.0669 39.790 40.719 1.00 26.00 IDIK18 ATOM 1767 N THR 235 -19.712 36.383 39.830 1.00 25.71 IDIK18 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 IDIK18 ATOM 1771 CA THR 235 -19.506 35.104 37.731 1.00 28.27 IDIK18 ATOM 1775 OGI THR 235 -19.506 35.104 37.732 1.00 28.27 IDIK18 ATOM 1776 C THR 235 -19.508 33.998 39.876 1.00 28.27 IDIK18 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIK18 ATOM 1777 C THR 235 -19.508 33.577 37.188 1.00 28.77 IDIK18 ATOM 1777 C TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIK18 ATOM 1776 CG TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIK18 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIK18 ATOM 1778 CA TYR 236 -20.575 34.406 38.129 1.00 28.77 IDIK18 ATOM 1786 CH TYR 236 -20.575 34.406 38.129 1.00 28.77 IDIK18 ATOM 1787 C TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIK18 ATOM 1787 C TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIK18 ATOM 1788 OH TYR 236 -22.406 34.165 34.980 1.00 30.28 IDIK18 ATOM 1787 C TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIK18 ATOM 1787 C TYR 236 -20.575 34.406 38.129 1.00 33.44 IDIK18 ATOM 1788 OH TYR 236 -22.406 32.741 37.908 1.00 33.44						-19.163		42.894		1DIK1845
ATOM 1755 CA GLU 233 -22.637 33.978 41.919 1.00 27.81 IDIKI8 ATOM 1756 C GLU 233 -22.923 35.196 41.016 1.00 27.81 IDIKI8 ATOM 1757 O GLU 233 -22.923 35.196 41.016 1.00 30.27 IDIKI8 ATOM 1758 CB GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIKI8 ATOM 1758 CB GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIKI8 ATOM 1759 CG GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIKI8 ATOM 1760 CD GLU 233 -24.262 32.784 43.483 1.00 38.655 IDIKI8 ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 IDIKI8 ATOM 1761 CB1 GLU 233 -25.516 33.897 45.041 1.00 39.47 IDIKI8 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 43.44 IDIKI8 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 IDIKI8 ATOM 1764 CA VAL 234 -21.718 37.471 40.730 1.00 27.81 IDIKI8 ATOM 1765 C VAL 234 -20.779 37.131 39.555 1.00 28.07 IDIKI8 ATOM 1766 CG VAL 234 -21.139 38.631 41.599 1.00 27.61 IDIKI8 ATOM 1766 CG VAL 234 -21.139 38.631 41.599 1.00 27.61 IDIKI8 ATOM 1769 CG2 VAL 234 -22.0669 39.790 40.719 1.00 26.00 IDIKI8 ATOM 1769 CG2 VAL 234 -22.0669 39.790 40.719 1.00 23.62 IDIKI8 ATOM 1769 CG2 VAL 234 -22.020 39.114 42.574 1.00 23.62 IDIKI8 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 IDIKI8 ATOM 1771 CA THR 235 -19.506 35.104 37.728 1.00 27.53 IDIKI8 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 27.53 IDIKI8 ATOM 1773 O THR 235 -19.506 35.104 37.728 1.00 27.55 IDIKI8 ATOM 1773 CA THR 235 -19.506 35.104 37.728 1.00 27.57 IDIKI8 ATOM 1773 CA THR 235 -19.506 35.104 37.728 1.00 27.57 IDIKI8 ATOM 1773 CA THR 235 -19.506 35.104 37.728 1.00 27.79 IDIKI8 ATOM 1775 CGI THR 235 -17.513 35.272 39.329 1.00 26.76 IDIKI8 ATOM 1778 CA TYR 236 -22.024 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1778 CA TYR 236 -22.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1778 CA TYR 236 -22.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1778 CA TYR 236 -22.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1780 CA TYR 236 -22.588 29.788 40.181 1.00 33.46 IDIKI8 ATOM 1781 CB TYR 236 -22.588 29.788 40.181 1.00 33.46 IDIKI8 ATOM 1784 CC2 TYR 236 -22.578 34.406 38.129 1.00 27.77 IDIKI8 ATOM 1786 CC2 TYR 236 -22.588						-21.525		42.856	1.00 28.27	1DIX1846
ATOM 1756 C GLU 233 -22.500 35.196 41.016 1.00 27.81 IDIKI8 ATOM 1757 O GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIKI8 ATOM 1758 CB GLU 233 -22.927 34.029 42.660 1.00 32.29 IDIKI8 ATOM 1759 CG GLU 233 -24.262 32.784 43.483 1.00 38.655 IDIKI8 ATOM 1760 CD GLU 233 -25.539 32.883 44.298 1.00 41.41 IDIKI8 ATOM 1761 OE1 GLU 233 -25.716 33.897 45.041 1.00 39.47 IDIKI8 ATOM 1761 OE1 GLU 233 -26.366 31.961 44.185 1.00 39.47 IDIKI8 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.185 1.00 24.78 IDIKI8 ATOM 1764 CA VAL 234 -21.916 36.270 41.529 1.00 26.78 IDIKI8 ATOM 1765 C VAL 234 -21.718 37.471 40.730 1.00 27.81 IDIKI8 ATOM 1766 O VAL 234 -21.718 37.471 40.730 1.00 27.81 IDIKI8 ATOM 1766 O VAL 234 -21.031 37.532 38.409 1.00 27.61 IDIKI8 ATOM 1766 CG VAL 234 -21.139 38.631 41.599 1.00 27.61 IDIKI8 ATOM 1769 CG2 VAL 234 -22.020 39.114 42.574 1.00 29.25 IDIKI8 ATOM 1769 CG2 VAL 234 -22.202 39.114 42.574 1.00 23.62 IDIKI8 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 IDIKI8 ATOM 1771 CA THR 235 -19.712 36.383 39.830 1.00 25.71 IDIKI8 ATOM 1771 CA THR 235 -19.708 35.065 36.565 1.00 27.05 IDIKI8 ATOM 1773 O THR 235 -19.098 35.065 36.565 1.00 27.05 IDIKI8 ATOM 1776 CG2 THR 235 -19.098 35.065 36.565 1.00 27.05 IDIKI8 ATOM 1776 CG2 THR 235 -17.513 35.272 39.329 1.00 26.76 IDIKI8 ATOM 1778 CA TYR 236 -22.202 34.490 36.171 1.00 28.57 IDIKI8 ATOM 1778 CA TYR 236 -22.024 34.490 36.171 1.00 28.57 IDIKI8 ATOM 1778 CA TYR 236 -22.024 34.490 36.171 1.00 28.57 IDIKI8 ATOM 1778 CA TYR 236 -22.024 34.490 36.171 1.00 28.57 IDIKI8 ATOM 1780 CT TYR 236 -22.024 34.490 36.171 1.00 28.57 IDIKI8 ATOM 1780 CT TYR 236 -22.024 34.490 36.171 1.00 37.49 IDIKI8 ATOM 1780 CT TYR 236 -22.024 34.490 36.171 1.00 37.49 IDIKI8 ATOM 1780 CT TYR 236 -22.024 34.490 36.171 1.00 37.49 IDIKI8 ATOM 1780 CT TYR 236 -22.037 31.589 39.596 1.00 27.59 IDIKI8 ATOM 1780 CT TYR 236 -22.0575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1780 CT TYR 236 -22.0575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1787 CT TYR 236 -22.0575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1780 CT TYR 236 -22.0575									1.00 29.61	1DIK1847
ATOM 1757 O GLU 233 -22.923 35.162 39.872 1.00 30.27 IDIKI8 ATOM 1759 CG GLU 233 -24.262 32.784 43.483 1.00 38.65 IDIKI8 ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 IDIKI8 ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 41.41 IDIKI8 ATOM 1762 OE2 GLU 233 -25.716 33.897 45.041 1.00 39.47 IDIKI8 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 43.44 IDIKI8 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 43.44 IDIKI8 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 IDIKI8 ATOM 1765 C VAL 234 -21.718 37.471 40.730 1.00 27.81 IDIKI8 ATOM 1765 C VAL 234 -20.779 37.131 39.555 1.00 28.07 IDIKI8 ATOM 1767 CB VAL 234 -21.139 38.631 41.599 1.00 27.61 IDIKI8 ATOM 1767 CB VAL 234 -21.139 38.631 41.599 1.00 29.25 IDIKI8 ATOM 1769 CG2 VAL 234 -22.020 39.114 42.574 1.00 23.62 IDIKI8 ATOM 1770 N THR 235 -18.784 35.991 38.773 1.00 23.62 IDIKI8 ATOM 1771 CA THR 235 -18.784 35.991 38.773 1.00 27.53 IDIKI8 ATOM 1772 C THR 235 -19.506 35.104 37.228 1.00 28.27 IDIKI8 ATOM 1773 O THR 235 -19.506 35.104 37.228 1.00 28.27 IDIKI8 ATOM 1773 C THR 235 -19.506 35.104 37.228 1.00 28.27 IDIKI8 ATOM 1777 C THR 235 -19.506 35.065 36.565 1.00 27.05 IDIKI8 ATOM 1777 C THR 235 -19.506 35.065 36.565 1.00 27.75 IDIKI8 ATOM 1777 C THR 235 -19.506 33.065 36.565 1.00 27.75 IDIKI8 ATOM 1777 C TTR 236 -20.575 34.406 38.129 1.00 26.76 IDIKI8 ATOM 1777 C TTR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1777 C TTR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.53 IDIKI8 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.51 IDIKI8 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.51 IDIKI8 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.51 IDIKI8 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 32.74 IDIKI8 ATOM 1780 C TYR 236 -22.057 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1780 C TYR 236 -22.057 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1780 C TYR 236 -22.058 29.768 40.315 1.00 33.46 IDIKI8 ATOM 1780 C TYR 236 -22.058 29.768 40.315 1.00 33.46 IDIKI8 ATOM 1780 C TYR 236 -22.058 29.768 40.315 1.00 33.45				GLU						1DIK1848
ATOM 1758 CB GLU 233 -23.970 34.029 42.660 1.00 38.65 1DIKIS ATOM 1760 CD GLU 233 -25.539 32.893 44.298 1.00 38.65 1DIKIS ATOM 1761 OEI GLU 233 -25.539 32.893 44.298 1.00 41.41 1DIKIS ATOM 1762 OE2 GLU 233 -25.716 33.897 45.041 1.00 39.47 1DIKIS ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 1DIKIS ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 1DIKIS ATOM 1765 C VAL 234 -21.718 37.471 40.730 1.00 27.81 1DIKIS ATOM 1766 O VAL 234 -21.718 37.471 40.730 1.00 27.61 1DIKIS ATOM 1766 O VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIKIS ATOM 1767 CB VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIKIS ATOM 1768 CG1 VAL 234 -20.669 39.790 40.719 1.00 26.00 1DIKIS ATOM 1768 CG2 VAL 234 -22.202 39.114 42.574 1.00 23.62 1DIKIS ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 1DIKIS ATOM 1771 CA THR 235 -19.712 36.383 39.830 1.00 27.53 1DIKIS ATOM 1773 O THR 235 -19.712 36.383 39.830 1.00 27.53 1DIKIS ATOM 1773 CB THR 235 -19.666 31.04 40.416 1.00 27.53 1DIKIS ATOM 1773 CB THR 235 -19.666 31.09 39.876 1.00 27.79 1DIKIS ATOM 1776 CG THR 235 -17.513 35.272 39.329 1.00 26.76 1DIKIS ATOM 1777 CB THR 235 -17.686 31.998 39.876 1.00 27.79 1DIKIS ATOM 1776 CG THR 235 -17.686 31.998 39.876 1.00 27.79 1DIKIS ATOM 1777 CB THR 235 -17.866 31.998 39.876 1.00 27.79 1DIKIS ATOM 1778 CA TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIKIS ATOM 1778 CA TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1780 CT TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1780 CB TYR 236 -22.024 34.490 36.171 1.00 33.24 1DIKIS ATOM 1780 CB TYR 236 -22.024 34.490 36.171 1.00 33.24 1DIKIS ATOM 1781 CB TYR 236 -22.573 30.838 39.546 1.00 33.46 1DIKIS ATOM 1781 CB TYR 236 -22.5873 30.838 39.546 1.00 33.46 1DIKIS ATOM 1781 CB TYR 236 -22.588 29.768 40.315 1.00 33.46 1DIKIS ATOM 1780 CB TYR 236 -22.583 31.583 39.541 1.00 27.63 1DIKIS ATOM 1789 N LEU 237 -22.513 35.632 36.	MOTA	1757	0	GLU	233		35.162			1DIK1849
ATOM 1759 CG GLU 233 -24.262 32.784 43.483 1.00 38.65 1DIXI8 ATOM 1760 CD GLU 233 -25.716 33.897 45.041 1.00 41.41 1DIXI8 ATOM 1761 OE1 GLU 233 -25.716 33.897 45.041 1.00 39.47 1DIXI8 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 43.44 1DIXI8 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 43.44 1DIXI8 ATOM 1764 CA VAL 234 -21.7916 36.270 41.529 1.00 26.78 1DIXI8 ATOM 1764 CA VAL 234 -21.718 37.471 40.730 1.00 27.81 1DIXI8 ATOM 1766 O VAL 234 -21.718 37.471 40.730 1.00 27.81 1DIXI8 ATOM 1766 O VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIXI8 ATOM 1767 CB VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIXI8 ATOM 1769 CG2 VAL 234 -20.0669 39.790 40.719 1.00 29.25 1DIXI8 ATOM 1769 CG2 VAL 234 -22.202 39.114 42.574 1.00 23.62 1DIXI8 ATOM 1770 N THR 235 -19.702 39.313 49.830 1.00 27.53 1DIXI8 ATOM 1771 CA THR 235 -19.506 35.104 37.728 1.00 28.27 1DIXI8 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 28.27 1DIXI8 ATOM 1773 O THR 235 -19.506 35.104 37.728 1.00 28.27 1DIXI8 ATOM 1774 CB THR 235 -19.506 35.065 36.565 1.00 27.05 1DIXI8 ATOM 1776 CG2 THR 235 -17.513 35.272 39.329 1.00 26.76 1DIXI8 ATOM 1776 CG2 THR 235 -17.513 35.272 39.329 1.00 26.76 1DIXI8 ATOM 1777 CG2 THR 235 -17.513 35.272 39.329 1.00 26.76 1DIXI8 ATOM 1776 CG2 THR 235 -17.513 35.272 39.329 1.00 26.76 1DIXI8 ATOM 1776 CG2 THR 235 -17.513 35.272 39.329 1.00 28.27 1DIXI8 ATOM 1779 C TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIXI8 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.53 1DIXI8 ATOM 1780 CG TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIXI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIXI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIXI8 ATOM 1780 CG TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIXI8 ATOM 1780 CG TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIXI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIXI8 ATOM 1785 CE1 TYR 236 -22.024 34.490 36.171 1.00 33.46 1DIXI8 ATOM 1786 CE2 TYR 236 -22.038 39.735 1.00 31.65 1DIXI8 ATOM 1787 CC TYR 236 -22.038 39.735 1.00 31.65 1DIXI8 ATOM 1788 CE1 TYR 236 -22.036 -22.037 30	ATOM	1758	CB	GLU	233	-23.970			1.00 32.29	1DIK1850
ATOM 1761 OEL GLU 233 -25.716 33.897 45.041 1.00 39.47 1DIKI8 ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 43.44 1DIKI8 ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 1DIKI8 ATOM 1764 CA VAL 234 -21.718 37.471 40.730 1.00 27.81 1DIKI8 ATOM 1766 O VAL 234 -20.779 37.131 39.555 1.00 28.07 1DIKI8 ATOM 1766 O VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIKI8 ATOM 1767 CB VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIKI8 ATOM 1768 CG1 VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIKI8 ATOM 1769 CG2 VAL 234 -22.202 39.114 42.574 1.00 23.62 1DIKI8 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 1DIKI8 ATOM 1771 CA THR 235 -18.784 35.991 38.773 1.00 27.53 1DIKI8 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 27.53 1DIKI8 ATOM 1774 CB THR 235 -19.506 35.104 37.728 1.00 27.55 1DIKI8 ATOM 1776 CG2 THR 235 -17.513 35.272 39.329 1.00 26.76 1DIKI8 ATOM 1776 CG2 THR 235 -17.513 35.272 39.329 1.00 26.76 1DIKI8 ATOM 1776 CG2 THR 235 -17.513 35.272 39.329 1.00 26.76 1DIKI8 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.73 1DIKI8 ATOM 1779 C TYR 236 -21.339 33.577 37.188 1.00 27.79 1DIKI8 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1782 CG TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1788 CD1 TYR 236 -22.024 34.490 36.171 1.00 32.28 1DIKI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIKI8 ATOM 1783 CC1 TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIKI8 ATOM 1786 CC2 TYR 236 -22.024 34.490 36.171 1.00 33.24 1DIKI8 ATOM 1788 CC1 TYR 236 -22.024 34.490 36.171 1.00 33.24 1DIKI8 ATOM 1788 CC1 TYR 236 -22.024 34.490 36.171 1.00 33.27 1DIKI8 ATOM 1780 CD1 TYR 236 -22.024 34.490 36.171 1.00 33.24 1DIKI8 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 33.46 1DIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKI8 ATOM 1789 N LEU 237 -22.513 3	ATOM	1759	CG	GLU	233	-24.262			1.00 38.65	1DIX1851
ATOM 1762 OE2 GLU 233 -26.366 31.961 44.188 1.00 43.44 1DIKIR ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 1DIKIR ATOM 1765 C VAL 234 -22.718 37.471 40.730 1.00 27.81 1DIKIR ATOM 1765 C VAL 234 -20.779 37.131 39.555 1.00 28.07 1DIKIR ATOM 1766 O VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIKIR ATOM 1767 CB VAL 234 -21.139 38.631 41.599 1.00 29.25 1DIKIR ATOM 1768 CG1 VAL 234 -20.669 39.790 40.719 1.00 26.00 1DIKIR ATOM 1769 CG2 VAL 234 -22.023 93.114 42.574 1.00 23.62 1DIKIR ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 1DIKIR ATOM 1771 CA THR 235 -19.712 36.383 39.830 1.00 25.71 1DIKIR ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 27.53 1DIKIR ATOM 1773 O THR 235 -19.506 35.104 37.728 1.00 27.53 1DIKIR ATOM 1773 O THR 235 -19.098 35.065 36.565 1.00 27.05 1DIKIR ATOM 1775 OG1 THR 235 -17.866 33.998 39.876 1.00 28.27 1DIKIR ATOM 1775 CC THR 235 -17.866 33.998 39.876 1.00 28.53 1DIKIR ATOM 1777 C TTR 236 -20.575 34.406 38.129 1.00 26.76 1DIKIR ATOM 1778 CA TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIKIR ATOM 1778 CA TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIKIR ATOM 1778 CA TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIKIR ATOM 1780 CA TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIR ATOM 1780 CA TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIR ATOM 1780 CA TYR 236 -22.024 34.490 36.171 1.00 30.28 1DIKIR ATOM 1780 CD TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIKIR ATOM 1781 CD TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIKIR ATOM 1780 CD TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIKIR ATOM 1781 CD TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIKIR ATOM 1781 CD TYR 236 -22.024 34.490 36.171 1.00 33.46 1DIKIR ATOM 1780 CD TYR 236 -22.024 34.490 36.171 1.00 33.46 1DIKIR ATOM 1780 CD TYR 236 -22.024 34.490 36.171 1.00 33.45 1DIKIR ATOM 1780 CD TYR 236 -22.035 30.838 39.546 1.00 30.48 1DIKIR ATOM 1780 CD TYR 236 -22.036 23.74 37.998 1.00 26.50 1DIKIR ATOM 1780 CD TYR 236 -22.258 29.768 40.315 1.00 33.46 1DIKIR ATOM 1780 CD TYR 236 -22.258 29.768 40.315 1.00 33.46 1DIKIR ATOM 1780 CD TYR 236 -22.258 29.768 40.	MOTA					-25.539	32.893			101X1852
ATOM 1763 N VAL 234 -21.916 36.270 41.529 1.00 26.78 1DIKI8 ATOM 1764 CA VAL 234 -21.718 37.471 40.730 1.00 27.81 1DIKI8 ATOM 1765 C VAL 234 -20.779 37.131 39.555 1.00 28.07 1DIK18 ATOM 1766 O VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIK18 ATOM 1767 CB VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIK18 ATOM 1768 CGI VAL 234 -20.669 39.790 40.719 1.00 26.00 1DIK18 ATOM 1768 CG2 VAL 234 -22.202 39.114 42.574 1.00 23.62 1DIK18 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 1DIK18 ATOM 1771 CA THR 235 -18.784 35.991 38.773 1.00 27.53 1DIK18 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 27.53 1DIK18 ATOM 1773 O THR 235 -19.098 35.065 36.565 1.00 27.05 1DIK18 ATOM 1773 CA THR 235 -17.513 35.272 39.329 1.00 26.76 1DIK18 ATOM 1775 OGI THR 235 -17.513 35.272 39.329 1.00 26.76 1DIK18 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 1DIK18 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIK18 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1780 O TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIK18 ATOM 1780 CT TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIK18 ATOM 1780 CT TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIK18 ATOM 1780 CT TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIK18 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 33.24 1DIK18 ATOM 1780 CB TYR 236 -22.031 31.589 38.731 1.00 27.63 1DIK18 ATOM 1780 CB TYR 236 -22.513 30.838 39.546 1.00 31.65 1DIK18 ATOM 1780 CB TYR 236 -22.513 30.838 39.546 1.00 31.65 1DIK18 ATOM 1780 CB TYR 236 -22.513 30.838 39.546 1.00 31.46 1DIK18 ATOM 1780 CB TYR 236 -22.258 29.768 40.315 1.00 33.46 1DIK18 ATOM 1780 CB TYR 236 -22.258 29.768 40.315 1.00 39.13 1DIK18 ATOM 1780 CB TYR 236 -22.258 29.768 40.315										1DIK1853
ATOM 1764 CA VAL 234 -21.718 37.471 40.730 1.00 27.81 1DIKIS ATOM 1766 O VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIKIS ATOM 1767 CB VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIKIS ATOM 1768 CG1 VAL 234 -21.139 38.631 41.599 1.00 27.61 1DIKIS ATOM 1769 CG2 VAL 234 -22.202 39.170 40.719 1.00 26.00 1DIKIS ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 1DIKIS ATOM 1771 CA THR 235 -18.784 35.991 38.773 1.00 27.53 1DIKIS ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 28.27 1DIKIS ATOM 1773 O THR 235 -19.506 35.104 37.728 1.00 28.27 1DIKIS ATOM 1774 CB THR 235 -17.513 35.272 39.329 1.00 26.76 1DIKIS ATOM 1776 CG2 THR 235 -17.513 35.272 39.329 1.00 26.76 1DIKIS ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 1DIKIS ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIKIS ATOM 1779 C TYR 236 -21.339 33.577 37.188 1.00 27.79 1DIKIS ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 32.28 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIKIS ATOM 1783 CCI TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIKIS ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIKIS ATOM 1783 CCI TYR 236 -22.051 31.243 38.71 1.00 33.46 1DIKIS ATOM 1784 CCI TYR 236 -22.073 30.838 39.546 1.00 33.46 1DIKIS ATOM 1785 CCI TYR 236 -22.258 29.768 40.315 1.00 33.47 1DIKIS ATOM 1786 CB TYR 236 -22.258 29.768 40.315 1.00 33.47 1DIKIS ATOM 1788 OH TYR 236 -22.258 29.768 40.315 1.00 33.41 1DIKIS ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKIS ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKIS ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIKIS ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIKIS						-26.366	31.961	44.188	1.00 43.44	1DIK1854
ATOM 1765 C VAL 234 -20.779 37.131 39.555 1.00 28.07 1DIK18 ATOM 1766 O VAL 234 -21.031 37.532 38.409 1.00 27.61 1DIK18 ATOM 1768 CG1 VAL 234 -20.669 39.790 40.719 1.00 29.25 1DIK18 ATOM 1768 CG2 VAL 234 -20.669 39.790 40.719 1.00 26.00 1DIK18 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 1DIK18 ATOM 1771 CA THR 235 -19.712 36.383 39.830 1.00 25.71 1DIK18 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 27.53 1DIK18 ATOM 1773 O THR 235 -19.506 35.104 37.728 1.00 27.53 1DIK18 ATOM 1773 O THR 235 -19.098 35.065 36.565 1.00 27.05 1DIK18 ATOM 1775 CG1 THR 235 -17.866 33.998 39.876 1.00 28.57 1DIK18 ATOM 1776 CG2 THR 235 -17.866 33.998 39.876 1.00 28.53 1DIK18 ATOM 1777 C TTR 236 -20.575 34.406 38.129 1.00 26.76 1DIK18 ATOM 1778 CA TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIK18 ATOM 1779 C TYR 236 -21.339 33.577 37.188 1.00 27.49 1DIK18 ATOM 1780 CA TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1780 C TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1782 CG TYR 236 -22.024 34.490 36.171 1.00 32.72 1DIK18 ATOM 1783 CD1 TYR 236 -22.024 34.490 36.171 1.00 30.28 1DIK18 ATOM 1784 CC2 TYR 236 -22.024 34.490 36.171 1.00 33.28 1DIK18 ATOM 1785 CD1 TYR 236 -22.004 34.900 36.171 1.00 33.27 1DIK18 ATOM 1786 CE2 TYR 236 -22.005 30.838 39.546 1.00 30.28 1DIK18 ATOM 1785 CD1 TYR 236 -22.003 30.838 39.546 1.00 30.46 1DIK18 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIK18 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIK18 ATOM 1790 CA LEU 237 -22.173 37.237 34.842 1.00 27.61						-21.916		41.529	1.00 26.7B	1DIK1855
ATOM 1766 O VAL 234 -21.031 37.532 38.409 1.00 27.61 IDIKI8 ATOM 1767 CB VAL 234 -20.669 39.790 40.719 1.00 29.25 IDIKI8 ATOM 1769 CG2 VAL 234 -22.202 39.114 42.574 1.00 23.62 IDIKI8 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 IDIKI8 ATOM 1771 CA THR 235 -19.706 35.104 37.728 1.00 27.53 IDIKI8 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 27.53 IDIKI8 ATOM 1773 O THR 235 -19.098 35.065 36.565 1.00 27.05 IDIKI8 ATOM 1774 CB THR 235 -17.513 35.272 39.329 1.00 26.76 IDIKI8 ATOM 1775 OGI THR 235 -17.513 35.272 39.329 1.00 26.76 IDIKI8 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 IDIKI8 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1779 C TYR 236 -21.339 33.577 37.188 1.00 27.49 IDIKI8 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1780 O TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1782 CG TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1782 CG TYR 236 -22.024 34.980 1.00 30.28 IDIKI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1782 CG TYR 236 -22.024 34.490 36.171 1.00 32.72 IDIKI8 ATOM 1784 CC TYR 236 -22.054 34.655 34.980 1.00 30.28 IDIKI8 ATOM 1784 CC2 TYR 236 -22.054 34.655 34.980 1.00 30.28 IDIKI8 ATOM 1785 CE1 TYR 236 -22.051 31.243 38.711 1.00 32.72 IDIKI8 ATOM 1786 CE2 TYR 236 -22.073 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 33.46 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 33.46 IDIKI8 ATOM 1788 OH TYR 236 -22.258 29.768 40.315 1.00 33.46 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.261 35.818 1.00 27.63 IDIKI8 ATOM 1799 CA LEU 237 -22.513 37.217 34.842 1.00 27.63 IDIKI8						-21.718	37.471	40.730		1DIK1856
ATOM 1767 CB VAL 234 -21.139 38.631 41.599 1.00 29.25 1DIK18 ATOM 1769 CG1 VAL 234 -22.669 39.790 40.719 1.00 26.00 1DIK18 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 1DIK18 ATOM 1771 CA THR 235 -19.712 36.383 39.830 1.00 25.71 1DIK18 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 28.27 1DIK18 ATOM 1773 O THR 235 -19.506 35.104 37.728 1.00 28.27 1DIK18 ATOM 1773 C THR 235 -19.506 35.104 37.728 1.00 28.27 1DIK18 ATOM 1775 OGI THR 235 -17.816 33.998 39.876 1.00 28.27 1DIK18 ATOM 1775 OGI THR 235 -17.866 33.998 39.876 1.00 28.53 1DIK18 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 1DIK18 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIK18 ATOM 1778 CA TYR 236 -20.575 34.406 38.129 1.00 27.49 1DIK18 ATOM 1778 CA TYR 236 -22.057 34.406 38.129 1.00 27.49 1DIK18 ATOM 1780 O TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1780 C TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1781 CB TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1783 CD1 TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1783 CD1 TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1783 CD1 TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1783 CD1 TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1783 CD1 TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1785 CG TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1787 C TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1788 CD1 TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1785 CD1 TYR 236 -22.106 34.165 34.980 1.00 30.46 1DIK18 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 33.46 1DIK18 ATOM 1786 CC2 TYR 236 -22.258 29.768 40.315 1.00 33.42 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIK18 ATOM 1789 CA LEU 237 -22.173 37.237 34.842 1.00 27.63 1DIK18						-20.779	37.131		1.00 28.07	
ATOM 1768 CG1 VAL 234 -20.669 39.790 40.719 1.00 26.00 1DIK18 ATOM 1769 CG2 VAL 234 -22.202 39.114 42.574 1.00 23.62 1DIK18 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 1DIK18 ATOM 1771 CA THR 235 -19.702 36.383 39.830 1.00 27.53 1DIK18 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 29.27 1DIK18 ATOM 1773 O THR 235 -19.506 35.104 37.728 1.00 27.05 1DIK18 ATOM 1773 O THR 235 -19.098 35.065 36.565 1.00 27.05 1DIK18 ATOM 1775 OCI THR 235 -17.513 35.272 39.329 1.00 26.76 1DIK18 ATOM 1776 CG2 THR 235 -17.866 33.998 39.876 1.00 27.05 1DIK18 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 1DIK18 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIK18 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1780 O TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1781 CB TYR 236 -22.024 34.55 34.980 1.00 30.28 1DIK18 ATOM 1781 CB TYR 236 -22.024 34.55 34.980 1.00 30.28 1DIK18 ATOM 1781 CB TYR 236 -22.024 34.55 34.980 1.00 30.28 1DIK18 ATOM 1781 CB TYR 236 -22.05 32.741 37.908 1.00 28.51 1DIK18 ATOM 1782 CG TYR 236 -22.05 32.741 37.908 1.00 30.28 1DIK18 ATOM 1783 CD1 TYR 236 -22.733 30.838 39.546 1.00 33.46 1DIK18 ATOM 1785 CE1 TYR 236 -22.05 32.741 37.908 1.00 33.46 1DIK18 ATOM 1785 CE1 TYR 236 -22.05 32.741 37.908 1.00 33.46 1DIK18 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 33.46 1DIK18 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 33.45 1DIK18 ATOM 1786 CB TYR 236 -22.258 29.768 40.315 1.00 33.45 1DIK18 ATOM 1786 CB TYR 236 -22.258 29.768 40.315 1.00 33.46 1DIK18 ATOM 1788 OH TYR 236 -22.258 29.768 40.315 1.00 33.45 1DIK18 ATOM 1788 OH TYR 236 -22.258 29.768 40.315 1.00 33.45 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIK18 ATOM 1790 CA LEU 237 -22.513 37.217 34.842 1.00 27.63 1DIK18 ATOM 1791 C LEU 237 -22.173 37.227 34.842									1.00 27.81	
ATOM 1769 CG2 VAL 234 -22.202 39.114 42.574 1.00 23.62 IDIKI8 ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 IDIKI8 ATOM 1771 CA THR 235 -18.784 35.991 38.773 1.00 27.53 IDIKI8 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 28.27 IDIKI8 ATOM 1773 O THR 235 -19.506 35.065 36.565 1.00 27.05 IDIKI8 ATOM 1774 CB THR 235 -17.513 35.272 39.329 1.00 26.76 IDIKI8 ATOM 1775 OG1 THR 235 -17.513 35.272 39.329 1.00 26.76 IDIKI8 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 IDIKI8 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1779 C TYR 236 -21.339 33.577 37.188 1.00 27.79 IDIKI8 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1780 O TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1781 CB TYR 236 -22.106 34.165 34.980 1.00 20.28 IDIKI8 ATOM 1782 CG TYR 236 -22.106 34.165 34.980 1.00 30.28 IDIKI8 ATOM 1781 CB TYR 236 -22.516 32.741 37.908 1.00 28.51 IDIKI8 ATOM 1782 CG TYR 236 -22.503 32.741 37.908 1.00 28.51 IDIKI8 ATOM 1783 CD1 TYR 236 -20.573 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1784 CD2 TYR 236 -20.517 31.243 38.711 1.00 32.72 IDIKI8 ATOM 1785 CE1 TYR 236 -20.517 31.243 38.711 1.00 32.72 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 33.46 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 33.46 IDIKI8 ATOM 1788 OH TYR 236 -22.258 29.768 40.315 1.00 33.14 IDIKI8 ATOM 1788 OH TYR 236 -22.258 29.768 40.315 1.00 39.13 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.67 IDIKI8 ATOM 1789 N LEU 237 -22.513 37.237 34.842 1.00 27.67 IDIKI8										
ATOM 1770 N THR 235 -19.712 36.383 39.830 1.00 25.71 IDIKI8 ATOM 1771 CA THR 235 -19.506 35.104 37.728 1.00 27.53 IDIKI8 ATOM 1773 O THR 235 -19.506 35.104 37.728 1.00 28.27 IDIKI8 ATOM 1773 O THR 235 -19.506 35.104 37.728 1.00 28.27 IDIKI8 ATOM 1773 O THR 235 -19.098 35.065 36.565 1.00 27.05 IDIKI8 ATOM 1775 OG1 THR 235 -17.866 33.998 39.876 1.00 28.53 IDIKI8 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 IDIKI8 ATOM 1777 O TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1778 CA TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1778 CA TYR 236 -21.339 33.577 37.188 1.00 27.49 IDIKI8 ATOM 1780 O TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1780 O TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1781 CB TYR 236 -22.106 34.165 34.980 1.00 30.28 IDIKI8 ATOM 1782 CG TYR 236 -22.405 32.741 37.908 1.00 28.51 IDIKI8 ATOM 1783 CD1 TYR 236 -22.405 32.741 37.908 1.00 28.51 IDIKI8 ATOM 1783 CD1 TYR 236 -22.106 34.165 34.980 1.00 30.28 IDIKI8 ATOM 1783 CD1 TYR 236 -22.405 32.741 37.908 1.00 32.72 IDIKI8 ATOM 1785 CD1 TYR 236 -22.031 31.589 38.735 1.00 31.65 IDIKI8 ATOM 1785 CD1 TYR 236 -22.030 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1785 CD1 TYR 236 -22.733 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 IDIKI8 ATOM 1786 OH TYR 236 -22.258 29.768 40.315 1.00 35.17 IDIKI8 ATOM 1788 OH TYR 236 -22.258 29.768 40.315 1.00 35.17 IDIKI8 ATOM 1788 OH TYR 236 -22.258 29.768 40.315 1.00 39.13 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 27.63 IDIKI8 ATOM 1790 CA LEU 237 -22.513 37.237 34.842 1.00 27.617 IDIKI8 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.617 IDIKI8										1DIX1861
ATOM 1771 CA THR 235 -18.784 35.991 38.773 1.00 27.53 1DIKI8 ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 27.53 1DIKI8 ATOM 1773 O THR 235 -19.098 35.065 36.565 1.00 27.05 1DIKI8 ATOM 1774 CB THR 235 -17.513 35.272 39.329 1.00 26.76 1DIKI8 ATOM 1775 OGI THR 235 -17.513 35.272 39.329 1.00 28.53 1DIKI8 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 1DIKI8 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIKI8 ATOM 1779 C TYR 236 -21.339 33.577 37.188 1.00 27.79 1DIKI8 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1780 O TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1781 CB TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1781 CB TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIKI8 ATOM 1782 CG TYR 236 -22.405 32.741 37.908 1.00 30.28 1DIKI8 ATOM 1783 CD1 TYR 236 -22.503 31.589 38.735 1.00 31.65 1DIKI8 ATOM 1784 CD2 TYR 236 -20.571 31.243 38.711 1.00 32.72 1DIKI8 ATOM 1785 CE1 TYR 236 -20.030 30.838 39.546 1.00 33.46 1DIKI8 ATOM 1785 CE1 TYR 236 -22.733 30.838 39.546 1.00 33.46 1DIKI8 ATOM 1786 CE2 TYR 236 -22.733 30.838 39.546 1.00 33.46 1DIKI8 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 33.24 1DIKI8 ATOM 1788 CE1 TYR 236 -22.258 29.768 40.315 1.00 33.21 1DIKI8 ATOM 1788 OH TYR 236 -22.258 29.768 40.315 1.00 39.13 1DIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKI8 ATOM 1799 CA LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIKI8 ATOM 1799 CA LEU 237 -22.179 36.634 35.818 1.00 27.63 1DIKI8 ATOM 1799 CA LEU 237 -22.179 36.634 35.818 1.00 27.63 1DIKI8										1DIK1862
ATOM 1772 C THR 235 -19.506 35.104 37.728 1.00 28.27 1DIKI8 ATOM 1773 O THR 235 -19.506 35.065 36.565 1.00 27.05 1DIKI8 ATOM 1774 CB THR 235 -17.513 35.272 39.329 1.00 26.76 1DIKI8 ATOM 1775 OGI THR 235 -17.866 33.998 39.876 1.00 28.53 1DIKI8 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 1DIKI8 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIKI8 ATOM 1778 CA TYR 236 -22.575 34.406 38.129 1.00 27.49 1DIKI8 ATOM 1779 C TYR 236 -22.339 33.577 37.188 1.00 27.49 1DIKI8 ATOM 1780 O TYR 236 -22.024 34.496 36.171 1.00 28.77 1DIKI8 ATOM 1780 O TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIKI8 ATOM 1781 CB TYR 236 -22.405 32.741 37.908 1.00 28.51 1DIKI8 ATOM 1782 CG TYR 236 -22.405 32.741 37.908 1.00 28.51 1DIKI8 ATOM 1783 CD1 TYR 236 -22.405 32.741 37.908 1.00 28.51 1DIKI8 ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIKI8 ATOM 1784 CD2 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIKI8 ATOM 1785 CE1 TYR 236 -20.030 30.181 39.471 1.00 33.46 1DIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 33.46 1DIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIKI8 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 33.24 1DIKI8 ATOM 1788 OH TYR 236 -22.258 39.341.025 1.00 43.32 1DIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKI8 ATOM 1789 CA LEU 237 -22.513 35.634 35.818 1.00 27.63 1DIKI8 ATOM 1790 CA LEU 237 -22.173 37.237 34.842 1.00 27.17 1DIKI8										1DIK1863
ATOM 1773 O THR 235 -19.098 35.065 36.565 1.00 27.05 1DIK18 ATOM 1774 CB THR 235 -17.513 35.272 39.299 1.00 26.76 1DIK18 ATOM 1775 OG1 THR 235 -17.866 33.998 39.876 1.00 28.53 1DIK18 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 1DIK18 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 1DIK18 ATOM 1778 CA TYR 236 -21.339 33.577 37.188 1.00 27.49 1DIK18 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1780 O TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIK18 ATOM 1781 CB TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1782 CG TYR 236 -22.405 32.741 37.908 1.00 28.51 1DIK18 ATOM 1783 CD1 TYR 236 -22.405 32.741 37.908 1.00 30.28 1DIK18 ATOM 1784 CD2 TYR 236 -21.873 31.589 38.735 1.00 31.65 1DIK18 ATOM 1784 CD2 TYR 236 -20.517 31.243 38.731 1.00 32.72 1DIK18 ATOM 1785 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIK18 ATOM 1786 CE2 TYR 236 -22.733 30.838 39.546 1.00 33.46 1DIK18 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 33.46 1DIK18 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIK18 ATOM 1788 OH TYR 236 -20.904 29.446 40.271 1.00 39.13 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIK18 ATOM 1789 CA LEU 237 -22.513 35.632 36.656 1.00 27.63 1DIK18 ATOM 1790 CA LEU 237 -22.173 37.237 34.842 1.00 27.63 1DIK18						-19.506				1DIK1864
ATOM 1774 CB THR 235 -17.513 35.272 39.329 1.00 26.76 lDIKI8 ATOM 1775 OGI THR 235 -17.866 33.998 39.876 1.00 28.53 lDIKI8 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 lDIKI8 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 lDIKI8 ATOM 1778 CA TYR 236 -21.339 33.577 37.188 1.00 27.49 lDIKI8 ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 lDIKI8 ATOM 1780 O TYR 236 -22.024 34.490 36.171 1.00 28.77 lDIKI8 ATOM 1781 CB TYR 236 -22.106 34.165 34.980 1.00 30.28 lDIKI8 ATOM 1782 CG TYR 236 -22.405 32.741 37.908 1.00 28.51 lDIKI8 ATOM 1782 CG TYR 236 -21.873 31.589 38.735 1.00 31.65 lDIKI8 ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 lDIKI8 ATOM 1784 CD2 TYR 236 -20.517 31.243 38.711 1.00 32.72 lDIKI8 ATOM 1785 CE1 TYR 236 -20.010 30.838 39.546 1.00 33.46 lDIKI8 ATOM 1785 CE1 TYR 236 -20.010 30.181 39.471 1.00 33.24 lDIKI8 ATOM 1786 CE2 TYR 236 -20.004 29.446 40.315 1.00 33.13 lDIKI8 ATOM 1787 CZ TYR 236 -20.904 29.446 40.271 1.00 39.13 lDIKI8 ATOM 1788 OH TYR 236 -20.904 29.446 40.271 1.00 39.13 lDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 lDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 lDIKI8 ATOM 1799 CA LEU 237 -22.173 37.237 34.842 1.00 27.67		1773				-19.098				1DIK1865
ATOM 1775 OGI THR 235 -17.866 33.998 39.876 1.00 28.53 IDIKI8 ATOM 1776 CG2 THR 235 -16.859 36.104 40.416 1.00 27.73 IDIKI8 ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1778 CA TYR 236 -21.339 33.577 37.188 1.00 27.49 IDIKI8 ATOM 1779 C TYR 236 -22.024 34.496 36.171 1.00 28.77 IDIKI8 ATOM 1780 O TYR 236 -22.106 34.165 34.980 1.00 30.28 IDIKI8 ATOM 1781 CB TYR 236 -22.405 32.741 37.908 1.00 28.51 IDIKI8 ATOM 1782 CG TYR 236 -22.405 32.741 37.908 1.00 28.51 IDIKI8 ATOM 1783 CD1 TYR 236 -21.873 31.589 38.735 1.00 31.65 IDIKI8 ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 IDIKI8 ATOM 1784 CD2 TYR 236 -20.517 31.243 38.711 1.00 32.72 IDIKI8 ATOM 1785 CE1 TYR 236 -20.517 31.243 38.711 1.00 32.46 IDIKI8 ATOM 1786 CE2 TYR 236 -22.733 30.838 39.546 1.00 31.46 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 33.24 IDIKI8 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 35.17 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.556 1.00 29.13 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.634 35.818 1.00 27.63 IDIKI8 ATOM 1790 CA LEU 237 -22.173 37.237 34.842 1.00 27.63 IDIKI8									1.00 26.76	1DIK1866
ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1778 CA TYR 236 -21.339 33.577 37.188 1.00 27.49 IDIKI8 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1780 O TYR 236 -22.106 34.165 34.980 1.00 30.28 IDIKI8 ATOM 1781 CB TYR 236 -22.405 32.741 37.908 1.00 30.28 IDIKI8 ATOM 1782 CG TYR 236 -22.1873 31.589 38.735 1.00 31.65 IDIKI8 ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 IDIKI8 ATOM 1784 CD2 TYR 236 -22.733 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1785 CE1 TYR 236 -22.733 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1786 CE2 TYR 236 -22.030 30.181 39.471 1.00 33.24 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 IDIKI8 ATOM 1787 CZ TYR 236 -20.904 29.446 40.271 1.00 39.13 IDIKI8 ATOM 1788 OH TYR 236 -20.422 28.393 41.025 1.00 43.32 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 IDIKI8 ATOM 1790 CA LEU 237 -22.173 37.237 34.842 1.00 27.63 IDIKI8		1775							1.00 28.53	1DIX1867
ATOM 1777 N TYR 236 -20.575 34.406 38.129 1.00 27.79 IDIKI8 ATOM 1778 CA TYR 236 -21.339 33.577 37.188 1.00 27.49 IDIKI8 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1780 O TYR 236 -22.106 34.165 34.980 1.00 30.28 IDIKI8 ATOM 1781 CB TYR 236 -22.405 32.741 37.908 1.00 30.28 IDIKI8 ATOM 1782 CG TYR 236 -22.1873 31.589 38.735 1.00 31.65 IDIKI8 ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 IDIKI8 ATOM 1784 CD2 TYR 236 -22.733 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1785 CE1 TYR 236 -22.733 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1786 CE2 TYR 236 -22.030 30.181 39.471 1.00 33.24 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 IDIKI8 ATOM 1787 CZ TYR 236 -20.904 29.446 40.271 1.00 39.13 IDIKI8 ATOM 1788 OH TYR 236 -20.422 28.393 41.025 1.00 43.32 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 IDIKI8 ATOM 1790 CA LEU 237 -22.173 37.237 34.842 1.00 27.63 IDIKI8			CG2	THR	235			40.416	1.00 27.73	1DIK1868
ATOM 1778 CA TYR 236 -21.339 33.577 37.188 1.00 27.49 IDIKI8 ATOM 1780 C TYR 236 -22.024 34.490 36.171 1.00 28.77 IDIKI8 ATOM 1780 C TYR 236 -22.106 34.165 34.980 1.00 30.28 IDIKI8 ATOM 1781 CB TYR 236 -22.405 32.741 37.908 1.00 30.28 IDIKI8 ATOM 1782 CG TYR 236 -22.405 32.741 37.908 1.00 31.65 IDIKI8 ATOM 1783 CD1 TYR 236 -22.405 32.741 37.908 1.00 32.72 IDIKI8 ATOM 1784 CD2 TYR 236 -20.517 31.243 38.731 1.00 32.72 IDIKI8 ATOM 1785 CE1 TYR 236 -22.733 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1785 CE2 TYR 236 -22.733 30.838 39.546 1.00 33.46 IDIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 IDIKI8 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 35.17 IDIKI8 ATOM 1788 OH TYR 236 -20.904 29.446 40.271 1.00 39.13 IDIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 IDIKI8 ATOM 1790 CA LEU 237 -22.513 35.632 36.656 1.00 29.13 IDIKI8 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.63 IDIKI8			N		236				1.00 27.79	1DIK1869
ATOM 1779 C TYR 236 -22.024 34.490 36.171 1.00 28.77 1DIKI8 ATOM 1780 O TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIKI8 ATOM 1781 CB TYR 236 -22.405 32.741 37.908 1.00 28.51 1DIKI8 ATOM 1782 CG TYR 236 -21.873 31.589 38.735 1.00 31.65 1DIKI8 ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIKI8 ATOM 1784 CD2 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIKI8 ATOM 1785 CE1 TYR 236 -20.030 30.838 39.546 1.00 33.46 1DIKI8 ATOM 1785 CE2 TYR 236 -20.030 30.181 39.471 1.00 33.24 1DIKI8 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIKI8 ATOM 1787 CZ TYR 236 -20.904 29.446 40.271 1.00 39.13 1DIKI8 ATOM 1788 OH TYR 236 -20.422 28.393 41.025 1.00 43.32 1DIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKI8 ATOM 1790 CA LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKI8 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.67 1DIKI8						-21.339		37.188	1.00 27.49	1DIK1870
ATOM 1780 O TYR 236 -22.106 34.165 34.980 1.00 30.28 1DIK18 ATOM 1781 CB TYR 236 -22.405 32.741 37.908 1.00 28.51 1DIK18 ATOM 1782 CG TYR 236 -21.873 31.589 38.735 1.00 31.65 1DIK18 ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIK18 ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIK18 ATOM 1785 CD1 TYR 236 -20.030 30.181 39.471 1.00 33.24 1DIK18 ATOM 1786 CE2 TYR 236 -20.030 30.181 39.471 1.00 33.24 1DIK18 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIK18 ATOM 1788 OH TYR 236 -20.904 29.446 40.271 1.00 39.13 1DIK18 ATOM 1788 OH TYR 236 -20.904 29.446 40.271 1.00 39.13 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIK18 ATOM 1790 CA LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIK18 ATOM 1790 CA LEU 237 -22.173 37.237 34.842 1.00 27.63 1DIK18 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.17 1DIK18			С		236			. 36.171	1.00 28.77	1DIK1871
ATOM 1781 CB TYR 236 -22.405 32.741 37.908 1.00 28.51 1DIKI8 ATOM 1782 CG TYR 236 -21.873 31.589 38.735 1.00 31.65 1DIKI8 ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIKI8 ATOM 1784 CD2 TYR 236 -22.733 30.838 39.546 1.00 33.46 1DIKI8 ATOM 1785 CE1 TYR 236 -22.733 30.838 39.546 1.00 33.46 1DIKI8 ATOM 1786 CE2 TYR 236 -20.030 30.181 39.471 1.00 33.24 1DIKI8 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIKI8 ATOM 1788 OH TYR 236 -20.904 29.446 40.271 1.00 39.13 1DIKI8 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKI8 ATOM 1790 CA LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIKI8 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.63 1DIKI8	MOTA					-22.106	34.165	34.980	1.00 30.28	· 1DIK1872
ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIK18 ATOM 1784 CD2 TYR 236 -22.733 30.838 39.546 1.00 33.46 1DIK18 ATOM 1785 CE1 TYR 236 -20.030 30.181 39.471 1.00 33.24 1DIK18 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIK18 ATOM 1787 CZ TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIK18 ATOM 1788 OH TYR 236 -20.904 29.446 40.271 1.00 39.13 1DIK18 ATOM 1789 N LEU 237 -20.422 28.393 41.025 1.00 43.32 1DIK18 ATOM 1790 CA LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIK18 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.63 1DIK18	MOTA			TYR		-22.405	32.741	37.908	1.00 28.51	1DIK1873
ATOM 1783 CD1 TYR 236 -20.517 31.243 38.711 1.00 32.72 1DIK18 ATOM 1784 CD2 TYR 236 -22.733 30.838 39.546 1.00 33.46 1DIK18 ATOM 1785 CD1 TYR 236 -20.030 30.181 39.471 1.00 33.24 1DIK18 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIK18 ATOM 1787 CZ TYR 236 -20.904 29.446 40.271 1.00 39.13 1DIK18 ATOM 1788 OH TYR 236 -20.422 28.393 41.025 1.00 43.32 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIK18 ATOM 1790 CA LEU 237 -22.173 37.237 34.842 1.00 27.63 1DIK18 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.17 1DIK18							31.589	38.735		1DIK1874
ATOM 1785 CEL TYR 236 -20.030 30.181 39.471 1.00 33.24 1DIK18 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIK18 ATOM 1787 CZ TYR 236 -20.904 29.446 40.271 1.00 39.13 1DIK18 ATOM 1788 OH TYR 236 -20.422 28.393 41.025 1.00 43.32 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIK18 ATOM 1790 CA LEU 237 -23.179 36.634 35.818 1.00 27.63 1DIK18 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.17 1DIK18			CDI	TYR		-20.517	31.243		1.00 32.72	1DIK1875
ATOM 1785 CEL TYR 236 -20.030 30.181 39.471 1.00 33.24 1DIK18 ATOM 1786 CE2 TYR 236 -22.258 29.768 40.315 1.00 35.17 1DIK18 ATOM 1787 CZ TYR 236 -20.904 29.446 40.271 1.00 39.13 1DIK18 ATOM 1788 OH TYR 236 -20.422 28.393 41.025 1.00 43.32 1DIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 1DIK18 ATOM 1790 CA LEU 237 -23.179 36.634 35.818 1.00 27.63 1DIK18 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.17 1DIK18			CDS	TYR		-22.733	30.838		1.00 33.46	1DIK1876
ATOM 1787 CZ TYR 236 -20.904 29.446 40.271 1.00 39.13 IDIK18 ATOM 1788 OH TYR 236 -20.422 28.393 41.025 1.00 43.32 IDIK18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 IDIK18 ATOM 1790 CA LEU 237 -23.179 36.634 35.818 1.00 27.63 IDIK18 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.17 IDIK18							30.181		1.00 33.24	1DIK1877
ATOM 1788 OH TYR 236 -20.422 28.393 41.025 1.00 43.32 10IX18 ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 10IX18 ATOM 1790 CA LEU 237 -23.179 36.634 35.818 1.00 27.63 10IX18 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.17 1DIX18										10IK1878
ATOM 1789 N LEU 237 -22.513 35.632 36.656 1.00 29.13 101K18 ATOM 1790 CA LEU 237 -23.179 36.634 35.818 1.00 27.63 101K18 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.17 1D1K18										1DIX1879
ATOM 1790 CA LEU 237 -23.179 36.634 35.818 1.00 27.63 10IK18 ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.17 1DIK18										101X1880
ATOM 1791 C LEU 237 -22.173 37.237 34.842 1.00 27.17 1DIK18										101K1881
					231					101K1882
RIUM 1192 0 200 231 -22.306 31.321 33.699 1.00 30.61 IDERIE							37.237		1.00 27.17	
	WION	1132	U	150	231	-22.306	31.321	33.699	1.00 30.67	INTERES

ATCM	1793	CB	LEU	237	-23.813	37.734	36.682	1.00 25.77	1DIK1885
ATOM	1794	CG	LEU	237	-25.081	37.327		1.00 22.88	
	1795						37.447		1DIK1886
ATOM		CDI	LEU	237	-25.528	38.415	38.421	1.00 24.36	1DIX1887
ATOM	1796	CD2	LEU	237	-26.165	37.036	36.455	1.00 17.71	101K188B
ATOM	1797	N	MET	238	-20.940	37.423	35.286	1.00 24.39	
	1798								1DIK1889
MOTA		CA	MET	238	-19.918	37.948	34.403	1.00 25.37	1DIK1890
ATOM	1799	C	Met	238	-19.575	36.882	33.359	1.00 28.12	101X1891
ATOM	1800	0	MET	238	-19.335	37.210	32.195	1.00 31.98	1DIK1892
ATOM	1801	ĊВ	MET	238		37.210		1.00 31.30	
					-18.684	38.358	35.203	1.00 21.01	1DIK1893
ATOM	1802	CG	MET	23B	-18.967	39.504	36.148	1.00 18.56	1DIK1894
MOTA	1803	SD.	MET	238	-17.500	40.183	36.915	1.00 26.85	1DIK1895
ATOM	1804	CE	MET	238	-16.964				
						41.396	35.681	1.00 20.81	1DIK1896
ATOM	1805	N	ASP	239	-19.562	35.608	33.764	1.00 29.27	1DIK1897
MOTA	1806	CA	ASP	239	-19.268	34.497	32.838	1.00 28.12	1DIK1898
MOTA	1807	С	ASP	239	-20.314	34.486	31.727		
						34.400		1.00 26.51	10IK1899
MOTA	1808	0	ASP	239	-20.003	34.210	30.577	1.00 27.19	1DIK1900
ATOM	1809	СB	ASP	239	-19.340	33.129	33.542	1.00 27.22	1DIK1901
ATOM	1810	CG	ASP	239	-18.144	32.836	34.448	1.00 24.04	1DIK1902
ATOM	1811	OD1		239	-17.162			1.00 24.04	
						33.602	34.461	1.00 22.09 1.00 27.85	1DIK1903
MOTA	1812	OD2		239	-18.194	31.807	35.162	1.00 27.85	1DIK1904
ATOM	1813	N	MET	240	-21.557	34.784	32.089	1.00 24.64	1DIK1905
MOTA	1814	CA	MET	240	-22.664	34.800			
						34.800	31.141	1.00 26.17	1DIX1906
ATOM	1815	Ç	MET	240	-22.509	35.815	30.018	1.00 26.18	1DIK1907
ATOM	1816	0	MET	240	-23.034	35.621	28.924	1.00 25.09	1DIK1908
ATOM	1817	CB	MET	240	-23.984	35.039	31.877	1.00 29.12	10IK1909
ATOM	1818	CG	MET	240					
					-24.519	33.809	32.591	1.00 28.59	1DIK1910
MOTA	1819	SD	MET	240	-24.873	32.469	31.404	1.00 34.30	1DIK1911
MOTA	1820	CE	MET	240	-26.354	33.141	30.505	1.00 25.69	1DIK1912
MOTA	1821	N	CYS	241		35.272			
					-21.793	36.899	30.280	1.00 25.30	1DIK1913
ATOM	1822	CA	CYS	241	-21.581	37.910	29.254	1.00 27.89	1DIK1914
MOTA	1823	С	CYS	241	-20.931	37.244	28.032	1.00 25.49	1DIK1915
ATOM	1824	ō	CYS	241	-21.348				
					-21.340	37.459	26.892	1.00 26.76	1DIK1916
ATOM	1825	СВ	CYS	241	-20.710	39.049	29.814	1.00 24.99	1DIK1917
ATOM	1826	SG	CYS	241	~19.856	40.115	28.598	1.00 27.44	10IK191B
ATOM	1827	N	SER	242	-19.924	36.420	28.291	1.00 25.28	1DIK1919
					-13.327				
ATOH	1828	CA	SER	242	-19.197	35.698	27.256	1.00 25.73	1DIK1920
MOTA	1829	C	SER	242	-20.072	34.679	26.507	1.00 26.63	1DIK1921
ATOM	1830	0	SER	242	-20.275	34.786	25.289	1.00 25.57	1DIK1922
ATOM	1831	CB	SER	242	-18.003	34.989	27.897	1.00 27.44	1DIK1923
ATOM	1832	OG	SER	242	-17.294	34.219	26.949	1.00 39.33	1DIK1924
MOTA	1833	N	PHE	243	-20.594	33.697	27.238	1.00 26.85	1DIK1925
ATOM	1834	CA	PHE	243					
					-21.419	32.642	26.648	1.00 26.10	1DIK1926
MOTA	1835	C	PHE	243	-22.663	33.140	25.941	1.00 27.04	1DIK1927
ATOM	1836	0	PHE	243	-23.021	32.637	24.872	1.00 26.53	1DIK1928
ATOM	1837	CB	PHE	243	-21.818	31.617	27.714	1.00 25.98	1DIK1929
ATOM	1838	CG	PHE	243	-20.655	30.845	28.277	1.00 26.19	10IK1930
MOTA	1839	CD1	PHE	243	-20.075	29.805	27.549	1.00 23.12	. 1DIK1931
MOTA	1840	CD2	PHE	243	-20.129	31.168	29.530	1.00 21.56	1DIK1932
ATOM	1841			243					
		CE1	PHE		-18.978	29.093	28.066	1.00 25.40	1DIK1933
MOTA	1842	CEZ	PHE	243	-19.042	30.469	30.052	1.00 22.05	1DIK1934
MOTA	1843	cz	PHE	243	-18.461	29.427	29.319	1.00 21.32	1DIK1935
MOTA		· N	ASP	244					
7100					-23.330	34.126	26.529	1.00 27.71	10IK1936
MOTA	1845	CA	ASP	244	-24.537	34.643	25.907	1.00 30.62	1DIK1937
ATOM	1846	С	ASP	244	-24.235	35.494	24.666	1.00 32.18	1DIK1938
ATOM	1847	ō	ASP	244	-25.120	35.741		1.00 34.05	1DIK1939
							23.854		
MOTA	1848	CB	ASP	244	-25.379	35.428	26.917	1.00 27.50	1DIK1940
ATOM	1849	CG	ASP	244	-26.785	35.723	26.404	1.00 28.82	1DIK1941
MOTA	1850	០១។	ASP	244	-27.531	34.777	26.077	1.00 24.13	10IK1942
	1851		ASP						
MOTA				244	-27.149	36.910	26.323	1.00 30.15	1DIK1943
ATOM	1852	N	THR	245	-22.996	35.944	24.510	1.00 32.39	1DIK1944
ATOM	1853	CA	THR	245	-22.658	36.740	23.343	1.00 33.50	1DIK1945
ATOM	1854	c	THR	245	-22.282	35.850	22.153	1.00 38.87	1DIK1946
ATOM		ŏ			-22.602				
	1855		THR	245	-22.911	35.918	21.091	1.00 37.64	1DIK1947
MOTA	1856	СВ	THR	245	-21.511	37.706	23.647	1.00 32.72	1DIK1948
MOTA	1857		THR	245	-21.940	38.652	24.631	1.00 37.51	10IK1949
MOTA	1858		THR	245	-21.084				
						38.446	22.394	1.00 28.33	10IK1950
ATOM	1859	N	ILE	246	-21.268	35.008	22.335	1.00 40.95	101K1951
ATOM	1860	CA	ILE	246	-20.803	34.140	21.262	1.00 43.89	1DIK1952
MOTA	1861	č	ILE	246	-21.590		21.034	1.00 48.67	1DIK1953
						32.847			
MOTA	1862	0	ILE	246	-21.151	31.992	20.262	1.00 48.67	1DIK1954
MOTA	1863	CB	ILE	246	-19.279	33.826	21.419	1.00 41.80	1DIK1955
ATOM	1864		ILE	246	-18,988	33.826 33.144	21.419 22.757	1.00 37.29	1DIK1956
						35 137	24		
MOTA	1865		ILE	246	-18.464	35.125	21.329	1.00 43.70	1DIK1957
MOTA	1866	CD1	ILE	246	-17.508	33.098	23.087	1.00 29.59	1DIK1958
ATOM	1867	N	SER	247	-22.747	32.710	21.688	1.00 56.97	1DIK1959
MOTA	1068	CA	SER	247	-23.601	31.523	21.534	1.00 63.90	1DIK1960
ATOM	1869	C	SER	247	-24.145	31.424	20.107	1.00 70.33	1DIK1961
ATOM	1870	Ó	SER	247	-24.503	30.328	19.662	1.00 73.70	1DIK1962
MOTA	1871	CB	SER	247	-24.787	31.567	22.499	1.00 67.11	1DIK1963
MOTA	1872	OG	SER	247	-25.783	32.483	22.058	1.00 66.63	1DIK1964
- ATOM	1873	N	THR	248	-24.213	32.569	19.411	1.00 74.67	101K1965
ATOM									
MOTA	1874	CA	THR	248	-24.683	32.671	19.015	1.00 74.94	101K1966
MOTA	1875	С	THR	248	-23.546	33.054	17.049	1.00 76.44	1DIK1967
MOTA	1876	0	THR	248	-23.272	34.241	16.808	1.00 77.32	1DIK1968
ATOM	1877	ČВ	THR	248			17.000		1D1K1969
~.01	13//		Ink	440	-25.810	33.719	17.893	1.00 74.59	INTERIOR

MOTA	1878	0G1	THR	248	-26.917	33.299	18.699	1.00 74.12	1DIK:	1970
ATOM	1879		THR	248	-26.262	33.888	16.427	1.00 72.58		
									1DIK	
MOTA	1880	N	THR	253	-23.919	38.646	16.591	1.00 49.08	1DIK:	
MOTA	1881	CA	THR	253	-24.110	39.972	15.999	1.00 51.56	1DIK:	1973
MOTA	1882	C	THR	253	-24.258	41.028	17.100	1.00 49.54	1DIK	1974
MOTA	1883	0	THR	253	-23.757	42.146	16.965	1.00 49.39	1DIK	1975
ATOM	1884	СB	THR	253	-25.394	40.051	15.103	1.00 52.26	1DIK	
MOTA	1885	0G1		253	-25.489	38.881	14.282	1.00 61.78	IDIK	
ATOM	1886	CG2	THR	253	-25.344	41.284	14.189	1.00 51.28	1DIK:	1978
MOTA	1887	N	LYS	254	-24.941	40.670	18.185	1.00 46.23	1DIK:	1979
ATOM	1888	CA	LYS	254	-25.170	41.610		1.00 45.73	1DIK	
							19.275			
MOTA	1889	C	LYS	254	-24.562	41.222	20.618	1.00 42.99	1DIK	
ATOM	1890	0	LYS	254	-24.470	40.044	20.939	1.00 45.43	1DIK	1982
MOTA	1891	CB	LYS	254	-26.664	41.864	19.410	1.00 46.12	1DIK	1983
ATOM	1892	CG	LYS	254	-27.214	42.520	18.157	1.00 51.91	1DIK	
ATOM	1893	CD	LYS	254	-28.671	42.840	18.273	1.00 56.51	1DIK	
				254	20.071					
ATOM	1894	CE	LYS		-29.168	43.456	16.987	1.00 60.44	1DIK	
atom	1895	NZ	LYS	254	-30.576	43.918	17.160	1.00 67.71	1DIK	
ATOM	1896	N	LEU	255	-24.141	42.226	21.387	1.00 38.90	10IK	1988
ATOM	1897 .	CA	LEU	255	-23.533	42.022	22.705	1.00 33.29	1DIK	1989
MOTA	1898	C	LEU	255	-24.584	41.661	23.751	1.00 32.90	1DIK	
		ŏ		255	-25.637					
MOTA	1899		LEU			42.288	23.825		·1DIK	
MOTA	1900	CB	LEU	255	-22.797	43.286	23.141	1.00 25.06	1DIK	1992
MOTA	1901	CG	LEU	255	-21.B56	43.213	24.344	1.00 26.05	1DIK	1993
MOTA	1902	CD1	LEU	255	-20.707	42.242	24.095	1.00 21.04	1DIK	1994
ATOM	1903	CD2	LEU	255	-21.326	44.595	24.608	1.00 22.14	10 IK	
ATOM	1904	N	SER	256	-24.293	40.647	24.558	1.00 32.93	IDIK	
								1.00 32.33		
ATOM	1905	CA	SER	256	-25.212	40.207	25.598	1.00 31.52	101K	
MOTA	1906	С	SER	256	-25.489	41.293	26.643	1.00 32.01	1DIK	
ATOM	1907	0	SER	256	-24.574	42.013	27.082	1.00 30.64	ldik	1999
MOTA	1908	CB	SER	256	-24.650	38.965	26.306	1.00 30.76	ldik	
ATOM	1909	ÖĞ	SER	256	-25.446	38.602	27.430	1.00 27.78	1DIK	
					723.770					
ATOM	1910	N	PRO	257	-26.766	41.432	27.051	1.00 32.46	ldik	
MOTA	1911	CA	PRO	257	-27.131	42.434	28.060	1.00 32.73	1DIK	2003
MOTA	1912	C	PRO	257	-26.372	42.191	29.379	1.00 31.79	1DIK	2004
MOTA	1913	0	PRO	257	-26.136	43.130	30.138	1.00 35.33	1DIK	
ATOM	1914	СВ	PRO	257	-28.644	42.239	28.209	1.00 32.20	1DIK	
			PRO	257		41 606				
MOTA	1915	CG			-29.053	41.696	26.861	1.00 31.42	lDIK	
MOTA	1916	CD	PRO	257	-27.960	40.701	26.587	1.00 30.36	1DIK	
MOTA	1917	N	PHE	258	-25.984	40.941	29.646	1.00 27.64	ldik	2009
MOTA	1918	CA	PHE	258	-25.221	40.617	30.859	1.00 25.04	1DIK	2010
ATOM	1919	C	PHE	258	-23.910	41.407	30.928	1.00 24.80	1DIK	2011
ATOM	1920	ŏ	PHE	258	-23.389	41.661	32.011	1.00 22.95	IDIK	
	1921	ČВ		. 258						
MOTA	1921		PHE		-24.877	39.122	30.911		IDIK	
ATOM	1922	CG	PHE	258	-26.033	38.239	31.253	1.00 24.20	1DIK	
ATOM	1923	CD1	PHE	258	-26.455	38.105	32.569	1.00 23.98	ldik	2015
MOTA	1924	CD2	PHE	258	-26.712	37.544	30.257	1.00 26.82	1DIK	2016
MOTA	1925	CE1	PHE	258	-27.543	37.288	32.890	1.00 23.72	1DIK	2017
ATOM	1926		PHE	258	-27.806	36.721	30.565	1.00 24.56	1DIK	
								1 00 24 05		
ATOM	1927	CZ	PHE	258	-28.220	36.594	31.879	1.00 24.85	lDIK	
MOTA	1928	N	CYS	259	-23.375	41.790	29.772	1.00 24.43	IDIK	2020
ATOM	1929	CA	CYS	259	-22.119	42.536	29.731	1.00 27.30	1DIK	2021
ATOM	1930	С	CYS	259	-22.323	43.952	30.207	1.00 29.38	10 I K	2022
ATOM	1931	ō	CYS	259	-21.420	44.565	30.771	1.00 29.68	IDIK	
			CYS	259	21.120			1.00 26.45	IDIK	
ATOM	1932	СВ			-21.564 -21.348	42.591	28.307			
MOTA	1933	SG	CYS	259	-21.348	40.968	27.516	1.00 30.19	IDIK	
MOTA	1934	М	ASP	260	-23.527	44.460	29.975	1.00 31.11	1D1K	
ATOM	1935	CA	ASP	260	-23.879	45.821	30.326	1.00 33.64	1DIK	2027
ATOM	1936	С	ASP	260	-24.002	46.070	31.815	1.00 32.59	1DIK	2028
ATOM	1937	ō	ASP	260	-24.054	47.212	32.246	1.00 34.03	ldik	
ATOM	1938	ČВ	ASP	260		46.201		1.00 39.78	IDIK	
					-25.194		29.645			
MOTA	1939	CG	ASP	260	-25.246	47.667	29.252	1.00 44.26	IDIK	
ATOM	1940		ASP	260	-24.190	48.185	28.834	1.00 45.01	1DIK	
ATOM	1941	ODZ	ASP	260	-26.328	48.292	29.362	1.00 42.47	101K	2033
ATOM	1942	N	LEU	261	-24.051	45.007	32.603	1.00 33.47	IDIK	
ATOM	1943	CA	LEU	261	-24.200		34.043	1.00 29.07	101K	
						45.149		1 00 20 21		
MOTA	1944	c	LEU	261	-22.887	45.446	34.736	1.00 29.71	1DIK	
ATOM	1945	0	LEU	261	-22.867	45.747	35.929	1.00 33.17	1DIK	
ATOM	1946	CB	LEU	261	-24.816	43.880	34.629	1.00 28.55	10 LK	Z038
MOTA	1947	CG	LEU	261	-26.103	43.405	33.947	1.00 27.56	lDIK	
ATOM	1948		LEU	261	-26.541	42.089	34.534	1.00 25.79	IDIK	
							37.334	1 00 27 07		
MOTA	1949		LEU	261	-27.197	44.441	34.130	1.00 27.02	1DIK	
MOTA	1950	N	PHE	262	-21.786	45.376	33.997	1.00 29.05	1DIK	
ATOM	1951	CA	PHE	262	-20.471	45.607	34.586	1.00 27.80	101K	2043
ATOM	1952	c	PHE	262	-19.709	46.685	33.837	1.00 29.74	IDIK	
ATOM	1953	ō	PHE	262	-19.869	46.846	32.622	1.00 35.51	101K	
		СВ	PHE	262					lDIK	
ATOM	1954				-19.685	44.280	34.621	1.00 24.44		
MOTA	1955	CG	PHE	262	-20.478	43.146	35.192	1.00 21.65	1DIK	
MOTA	1956		PHE	262	-20.589	42.987	36.572	1.00 18.94	101K	
ATOM	1957		PHE	262	-21.176	42.277	34.348	1.00 20.22	1DIK	
ATOM	1958		PHE	262	-21.396	41.976	37.106	1.00 21.42	IDIK	
MOTA			PHE						IDIK	
	1959			262	-21.985	41.265	34.865	1.00 19.46		
ATOM	1960	CZ	PHE	262	-22.099	41.112	36.250	1.00 21.48	IDIK	
MOTA	1961	N	THR	263	-18.881	47.428	34.564	1.00 30.27	1DIK	
ATOM	1962	CA	THR	263	-18.113	48.502	33.967		101K	2054
								•		

ATOM	1963	C	THR	263	-16.811	47.961	33.425	1.00 29.54	1D1K2055
ATOM	1964	0	THR	263	-16.466	46.805	33.671	1.00 31.34	1DIX2056
MOTA	1965	CB	THR	263	-17.860	49.648	34.985	1.00 32.12	
ATOM	1966	OG1		263	-16.998	49.193			10IK2057
ATOM	1967	CG2		263	-19.183		36.036	1.00 29.58	1DIK2058
ATOM	1968	N	HIS	264		50.112	35.589	1.00 22.67	1DIK2059
					-16.087	48.802	32.693	1.00 30.02	1DIK2060
MOTA	1969	CA	HIS	264	-14.829	48.400	32.090	1.00 28.00	10 IK 20 6 L
MOTA	1970	Ç	HIS	264	-13.717	47.984	33.052	1.00 30.02	1DIK2062
MOTA	1971	0	HIS	264	-12.998	47.015	32.774	1.00 31.35	1DIK2063
MOTA	1972	CB	HIS	264	-14.314	49.480	31.143	1.00, 27.91	1DIK2064
MOTA	1973	CG	HIS	264	-13.111	49.048	30.370	1.00 34.68	1DIK2065
ATOM	1974	ND1	HIS	264	-13.186	48.157	29.318	1.00 31.27	10 IK 20 66
MOTA	1975	CD2	HIS	264	-11.795	49.339	30.527	1.00 35.74	1DIK2067
MOTA	1976	CE1	HIS	264	-11.969	47.916	28.863	1.00 37.49	1DIK2068
ATOM	1977	NE 2		264	-11.108	48.620	29.579	1.00 38.67	1DIK2069
ATOM	1978	N	ASP	265	-13.560	48.703	34.167	1.00 31.42	
MOTA	1979	CA	ASP	265	-12.533	48.371	35.172	1.00 29.27	1DIK2070
ATOM	1980	c .	ASP	265	-12.831	47.030	35.859		101K2071
ATOM	1981	ō	ASP	265	-11.923			1.00 27.71	1DIK2072
ATOM	1982	СВ	ASP	265	-12.421	46.352	36.346	1.00 25.15	1DIK2073
ATOM	1983	CG	ASP	265		49.481	36.222	1.00 36.26	1DIK2074
					-13.745	49.764	36.921	1.00 44.48	1DIK2075
ATOM	1984	OD1		265	-14.671	50.307	36.267	1.00 43.98	1DIK2076
ATOM	1985	ODZ		265	-13.860	49.441	38.128	1.00 49.77	1DIK2077
ATOM	1986	N	GLU	266	-14.108	46.651	35.896	1.00 26.27	1DIK2078
MOTA	1987	CA	GLU	266	-14.502	45.378	36.484	1.00 26.01	1DIK2079
MOTA	1988	C	GŁU	266	-14.093	44.272	35.517	1.00 27.04	1DIKZ080
MOTA	1989	0	GĽU	266	-13.665	43.205	35.956	1.00 28.64	1DIK2081
MOTA	1990	CB	GLU	266	-15.997	45.359	36.785	1.00 24.19	1DIK2082
MOTA	1991	CG	GLU	266	-16.336	46.287	37.939	1.00 24.01	1D1K2083
MOTA	1992	CD	GLU	266	-17.824	46.521	38.139	1.00 28.94	1DIK2084
MOTA	1993	OE 1		266	-18.647	46.091	37.299	1.00 30.18	1DIX2085
ATOM	1994	OE 2		266	-18.175	47.150	39.160	1.00 32.29	1DIK2086
ATOM	1995	N	TRP	267	-14.207	44.521	34.210	1.00 24.96	
ATOM	1996	CA	TRP	267		43.535			1DIK2087
MOTA	1997	c	TRP	267	-13.765		33.221	1.00 24.91	10IK2088
					-12.243	43.380	33.306	1.00 24.45	1DIK2089
ATOM	1998	0	TRP	267	-11.723	42.269	33.202	1.00 25.00	1DIK2090
ATOM	1999	CB	TRP	267	-14.210	43.915	31.801	1.00 22.45	1DIK2091
MOTA	2000	CG.	TRP	267	-15.684	43.646	31.596	1.00 22.28	1DIX2092
MOTA	2001	CD1		267	-16.661	44.567	31.355	1.00 20.97	1DIK2093
MOTA	2002	CD2	TRP	267	-16.349	42.370	31.684	1.00 20.83	1DIK2094
MOTA	2003	NEI		267	-17.889	43.952	31.293	1.00 23.15	1DIK2095
MOTA	2004	CES	TRP	267	-17.726	42.604	31.493	1.00 23.26	1DIK2096
MOTA	2005	CE3	TRP	267	-15.913	41.055	31.914	1.00 18.67	1DIK2097
MOTA	2006	CZ2	TRP	267	-18.672	41.569	31.529	1.00 22.56	1DIX2098
MOTA	2007	CZ3	TRP	267	-16.849	40.032	31.951	1.00 15.00	10IK2099
MOTA	2008		TRP	267	-18.211	40.294	31.761	1.00 18.10	1DIK2100
MOTA	2009	N	ILE	268	-11.526	44.479	33.517	1.00 23.42	1DIK2101
ATOM	2010	CA	ILE	268	-10.073	44.399	33.647	1.00 25.35	1DIK2102
ATOM	2011	c	ILE	268	-9.721	43.461	34.801	1.00 27.88	- 1DIK2103
ATOM	2012	ŏ	ILE	268	-8.776	42.673	34.714	1.00 28.12	101K2104
ATOM	2013	СB	ILE	268	-9.460	45.786		1.00 27.94	101K2105
ATOM	2014	CG1		268	-9.515	45.700	33.889		
	2015	CG2	ILE	268		46.575	32.579	1.00 27.22	101K2106
ATOM					-B.031	45.659	34.457	1.00 19.33	1DIK2107
MOTA	2016	CD1	ILE	268	-9.124	48-027	32.704	1.00 36.44	1DIX2108
ATOM	2017	N	ASN	269	-10.495	43.553	35.877	1.00 27.63	1DIK2109
ATOM	2018	CA	ASN	269	-10.290	42.704	37.039	1.00 27.33	1DIK2110
MOTA	2019	C	ASN	269	-10.656	41.259	36.739	1.00 26.62	101K2111
MOTA	2020	0	NEK	269	-9.918	40.348	37.108	1.00 27.01	1DIK2112
MOTA	2021	CB	ASN	269	-11.110	43.206	38.226	1.00 32.36	1DIK2113
MOTA	2022	CC	asn	269	-10.427	44.332	38.966	1.00 32.62	1DIK2114
MOTA	2023	001		269	-9.287	44.208	39.423	1.00 29.54	101K2115
MOTA	2024	ND2		269	-11.120	45.443	39.088	1.00 38.68	101K2116
MOTA	2025	N	TYR	270	-11.794	41.052	36.075	1.00 22.76	1DIK2117
MOTA	2026	CA	TYR	270	-12.245	39.708	35.712	1.00 22.97	1DIK2118
MOTA	2027	C	TYR	270		39.013	34.866	1.00 25.78	101K2119
ATOM	2028	ŏ	TYR	270	-11.168 -10.788	37.868	35.135	1.00 27.56	101K212G
ATOM	2029	СВ	TYR	270	-13.559	39.800	34.934	1.00 22.99	1DIK2121
ATOM	2030	CG	TYR	270	-14.101	38.485	34.386	1.00 25.74	101K2122
ATOM	2031	CD1		270	-14.989	37.699	35.134	1.00 26.53	1DIK2123
MOTA	2032	CD2		270	-13.761	38.050	33.099	1.00 23.95	1DIK2124
ATOM	2033		TYR	270	-15.528	36.511	34.607	1.00 23.23	1D1K2125
ATOM	2034		TYR	270	-14.288				
ATOM	2035			270		36.878	32.570	1.00 23.85	1DIK2126
		CZ	TYR		-15.173	36.113	33.327 32.790	1.00 25.13	1DIK2127
MOTA	2036	OH	TYR	270	-15.705	34.964 39.714	34.790	1.00 23.62	1DIK2128
MOTA	2037	N	ASP	271	-10.678	39.714	33.847	1.00 23.05	1D1K2129
ATOM	2038	CX	ASP	271	-9.651	39.186	32.975	1.00 21.40	1DIK2130
MOTA	2039	c	ASP	271	-8.449	38.727	33.810	1.00 24.98	1DIK2131
MOTA	2040	0	ASP	271	-7.903	37.632	33.587	1.00 23.79	1DIK2132
MOTA	2041	CB	ASP	271	-9.214	40.259	31.972	1.00 19.82	1DIK2133
MOTA	2042	CG	ASP	271	-8.135	39.762	31.028	1.00 25.01	1DIK2134
ATOM	2043	001	ASP	271	-8.467	38.997	30.098	1.00 25.69	1DIK2135
ATOM	2044	002		271	-6.955	40.130	31.215	1.00 22.99	1DIK2136
ATOM	2045	N	TYR	272	-8.042	39.565	34.766	1.00 26.52	1DIK2137
ATOM	2046	CA	TYR	272	-6.912	39.565 39.257	35.627	1.00 26.52 1.00 24.36	1D1K2138
ATOM	2047	c	TYR	272	-7.201	38.031	36.498	1.00 25.48	1DIK2139
		-					175		

MOTA	2048	0	TYR	272	-6.308	37.209	36.738	1.00 27.60		1DIK2140
ATOM	2049	CB	TYR	272	-6.546	4C:458	36.501	1.00 25.93		1DIK2141
MOTA	2050	CG	TYR	272	-5.236	40.246	37.210	1.00 24.39		1DIK2142
MOTA	2051	CD1		272	-4.042	40.250	36.495	1.00 24.69		1DIK2143
MOTA	2052	CD2		272	-5.186	40.001	38.587	1.00 24.58		1DIK2144
MOTA	2053	CEI	TYR	272	-2.825	40.014	37.120	1.00 24.93		1DIK2145
ATOM	2054	CE2	TYR	272	-3.970	39.762	39.230	1.00 23.27		1DIK2146
ATOM	2055	cz	TYR	272	-2.794	39.770	38.482	1.00 25.13		1DIK2147
ATOM	2056	OH	TYR	272	-1.577	39.541	39.073	1.00 27.21		1DIK2148
MOTA	2057	N.	LEU	273	-8.441	37.900	36.969	1.00 24.96		1DIK2149
	2058	ČA	LEU	273	-8.834	36.743	37.778	1.00 24.02		1DIK2150
ATOM	2059	č	LEU	273	-8.624	35.455	36.964	1.00 25.27		1DIK2151
ATOM	2060	ŏ	LEU	273	-8.159	34.454		1.00 29.71		1DIK2152
ATOM	2061	ČВ	LEU	273	-10.302	36.858	37.503 38.214	1.00 20.23		1DIX2153
MOTA		CG	LEU	273	-10.976	35.622	38.826	1.00 23.41	•	1DIK2154
MOTA	2062	CD1		273	-10.254	35.191	40.104	1.00 20.60		1DIK2155
MOTA	2063	CDS		273	-12.440	35.922	39.108	1.00 17.70		1DIX2156
MOTA	2064		GLN	274	-8.962	35.478	35.672	1.00 23.99		1DIK2157
MOTA	2065	N CA	GLN	274	-8.778	34.303	34.811	1.00 21.73		1DIX2158
MOTA	2066 2067		GLN	274	-7.290	37.303		1.00 21.38		1DIK2159
MOTA		č		274	-6.928	33.944 32.763	34.655 34.650	1.00 19.72		1DIK2160
ATOM	2068	0	GLN GLN	274	-0.920	34.783		1.00 20.31		1DIK2161
MOTA	2069	CB		274	-9.415	34.530	33.442			
ATOM	2070	CG	GLN	274	-10.881	34.906 34.017	33.505	1.00 23.01 1.00 25.47		1DIK2162 1DIK2163
MOTA	2071	CD	GLN	274	-11.710		34.424	1.00 25.47		
ATOM	2072		GLN		-11.536	32.805	34.477	1.00 23.72		1DIK2164
MOTA	2073	· NE2		274	-12.622	34.629	35.154	1.00 32.39		1DIK2165
MOTA	2074	N	SER	. 275	-6.436	34.961	34.526	1.00 20.92		1DIK2166
ATOM	2075	CA	SER	275	-4.991	34.751	34.433	1.00 20.81		1DIK2167
MOTA	2076	ç	SER	275	-4.472	34.099	35.725	1.00 24.14 1.00 27.93		1DIK2168
MOTA	2077	0	SER	275	-3.612	33.208	35.684			1DIK2169
ATOM	2078	CB	SER	275	-4.271	36.078	34.205	1.00 15.74		1DIK2170
MOTA	2079	OG	SER	275	-4.640	36.626	32.950	1.00 24.68		1DIK2171
MOTA	2080	N	LEU	276	-4.991	34.537	36.873	1.00 25.40		1DIK2172
ATOM	2081	CA	LEU	276	-4.571	33.969	38.157	1.00 25.08		1DIK2173
ATOM	2082	C .	LEU	276	-4.956	32.500	38.259	1.00 22.91 1.00 24.12		1DIK2174
MOTA	2083	0	LEU	276	-4.132	31.675	38.619			1DIK2175
ATOM	2084	CB	LEU	276	-5.173	34.753	39.333	1.00 25.80		1DIK2176
ATOM	2085	CG	LEU	276	-4.558	36.123	39.596	1.00 23.07 1.00 23.03		1DIK2177
MOTA	2086		LEU	276	-5.418	36.893	40.560			1DIK2178
MOTA	2087		LEU	276	-3.158	35.948	40.144			1DIK2179
ATOM	2088	N	LYS	277	-6.204	32.174	37.943	1.00 24.32		1DIK2180
MOTA	2089	CA	LYS	277	-6.656	30.790	38.001	1.00 25.45		1DIX2181
MOTA	2090	c	LYS	277	-5.722	29.874	37.204	1.00 24.92 1.00 26.63		10IK2182
MOTA	2091	0	LYS	277	-5.302	28.835	37.703			1DIK2183
MOTA	2092	CB	LYS	277	-8.049	30.647	37.417	1:00 26.65		1DIX2184
MOTA	2093	CG	LYS	277	-9.226	31.126	38.222	1.00 30.58		1DIK2185
MOTA	2094	CO	LYS	277	-10.424	30.639	37.399	1.00 36.27		1DIK2186
MOTA	2095	CE	LYS	277	-11.754	31.247	37.737	1.00 39.17		1DIK2187
ATOM	2096	NZ	LYS	277	-12.677	30.913	36.604	1.00 37.60		1DIK2188
ATOM	2097	N	LYS	278	-5.408	30.250	35.964	1.00 24.38		1DIK2189
ATOM	2098	CA	LYS	278	-4.523	29.440	35.111	1.00 24.41		1DIK2190
ATOM	2099	C	LYS	278	-3.073	29.414	35.598	1.00 24.27		1DIK2191
ATOM	2100	0	LYS	278	-2.429	28.360	35.590	1.00 24.08		1DIK2192
ATOM	2101	CB	LYS	278	-4.544	29.948	33.658	1.00 23.48		1DIK2193
ATOM	2102	CG	LYS	278	-5.880	29.828	32.975	1.00 20.48		1DIK2194 1DIK2195
ATOM	2103	CD	LYS	278	-6.423	28.428	33.097	1.00 19.64 1.00 24.74		1DIK2196
ATOM	2104	CE	LYS	278	-7.859	28.389	32.661	1.00 24.74		
ATOM	2105	NZ	LYS	278	-8.431	27.043.	32.798	1.00 22.55		1DIK2197
ATOM	2106	N	TYR	279 279	-2.565	30.573	36.016	1.00 22.37		1DIK2198 1DIK2199
ATOM	2107	CA	TYR	279	-1.194	30.686 29.887	36.488 37.749	1.00 24.45	1	1DIK2200
ATOM	2108	C	TYR	279	-0.880 0.165	29.88.7	37.749	1.00 25.51		1DIK2201
ATOM	2109	O CB		279	-0.828	29.237	37.826	1.00 23.08		1DIK2202
MOTA	2110		TYR	279		32.141 32.318	36.724	1.00 25.86		1DIK2203
MOTA MOTA	2111	CG	TYR	279	0.618 1.631	32.318	37.123 36.179	1.00 21.81		1DIK2204
	2112		TYR	279	0.973	32.222 32.570	38.452	1.00 24.65		1DIK2205
MOTA	2113		TYR	279	2.956	32.368	36.540	1.00 26.71		1DIX2206
MOTA MOTA	2114 2115	CE 2		279	2.294	32.718	38.824	1.00 21.38		1DIK2207
MOTA	2116	CZ	TYR	279	3.281	32.616	37.863	1.00 25.91		1DIK2208
MOTA	2117	OH	TYR	279	4.596	32.746	38.217	1.00 28.30		1DIK2209
ATOM	2118	N	TYR	280	-1.764	29.938	38.740	1.00 24.59		1DIK2210
ATOM	2119	CA	TYR	280	-1.536	29.208	39.981	1.00 26.07		1DIK2211
ATOM	2120	č	TYR	280	-2.136	27.822	39.951	1.00 26.49		1DIK2212
ATOM	2121	ŏ	TYR	280	-1.889	27.011	40.845	1.00 28.70		1DIK2213
ATOM	2122	СВ	TYR	280	-2.045	30.002	41.188	1.00 25.05		1DIK2214
ATOM	2123		TYR	280	-1.148	31.180	41.507	1.00 28.69		1DIK2215
HOTA	2124		TYR	280	0.047	30.997	42.214	1.00 24.61		1DIK2216
ATOM	2125		TYR	280	-1.466	32.475	41.065	1.00 27.52		1DIK2217
ATOM	2126		TYR	280	0.911	32.069	42.466	1.00 25.31		1DIK2218
MOTA	2127		TYR	280	-0.608	33.556	41.313	1.00 28.66		1DIK2219
ATOM	2128	CZ	TYR	,280	0.578	33.342	42.011	1.00 28.71		1DIK2220
ATOM		OH	TYR	280	1.444	74 795	42.212	1.00 29.16		1DIK2221
						J7.J9J	74.444	1.00 27.10		
	2129				-2 922	27 549	38 015	1.00 26.31		1DTK2222
MOTA	2130	N	GLY	281	-2.922	34.385 27.548 26.240	38.916	1.00 26.31		1DIK2222 1DIK2223
MOTA					-2.922 -3.530 -2.680	27.548 26.240 25.285	38.916 38.780 37.960	1.00 26.31 1.00 22.80 1.00 25.18		101K2222 101K2223 101K2224

MOTA	2133	0	GLY	281	-2.512	24.122	38.342	1.00 29.22	1DIK2225
MOTA	2134	N	HIS	282	-2.141	25.771	36.841	1.00 22.24	
MOTA	2135	ĊA	HIS	282					1DIK2226
					-1.342	24.943	35.939	1.00 24.32	1DIK2227
MOTA	2136	C	HIS	282	-0.042	25.561	35.448	1.00 26.33	1DIK2228
ATOM	2137	0	HIS	282	0.770	24.877	34.817	1.00 27.62	1DIK2229
ATOM	2138	CB	HIS	282	-2.190	24.543	34.733	1.00 21.27	1DIK2230
ATOM	2139	CG	HIS	282	-3.524	23.985	35.112	1.00 29.02	
ATOM	2140	NDI							1DIK2231
				282	-3.765	22.631	35.222	1.00 29.69	1DIK2232
ATOM	2141	CD2		282	-4.685	24.602	35.444	1.00 29.92	1DIK2233
ATOM	2142	CEl	HIS	282	-5.015	22.437	35.605	1.00 30.68	1DIK2234
ATOM	2143	NE2	HIS	282	-5.595	23.617	35.747	1.00 30.72	1DIK2235
ATOM	2144	N	GLY	283	0.155	26.846	35.722		
MOTA	2145	CA	GLY	283		20.010			1DIK2236
					1.370	27.50B	35.292	1.00 26.BO	1DIX2237
ATOM	2146	Ç	GLY	283	2.436	27.399	36.365	1.00 30.11	1DIX2238
ATOM	2147	0	GLY	283	2.324	26.566	37.272	1.00 26.73	1DIK2239
MOTA	2148	Н	ALA	284	3.461	28.249	36.259	1.00 31.03	1DIK2240
ATOM	2149	CA	ALA	284	4.579	28.284	37.196	1.00 28.74	101K2241
ATOM	2150	c	ALA	284	4.178	28.654			
ATOM	2151	ŏ					38.621	1.00 32.24	1DIK2242
			ALA	284	4.955	28.464	39.553	1.00 36.63	1DIX2243
ATOM	2152	CB	ALA	284	5.626	29.240	36.702	1.00 26.23	1DIK2244
ATOM	2153	N	GLY	285	2.974	29.182	38.800	1.00 31.80	1DIK2245
MOTA	2154	CA	GLY	285	2.534	29.541	40.133	1.00 30.04	1DIK2246
ATOM	2155	C	GLY	285	2.289	28.305	40.969	1.00 32.15	1DIK2247
ATOM	2156	ŏ	GLY	285	2.274				10182247
		N				28.364	42.201	1.00 39.54	1DIK2248
ATOM	2157		ASN	286	2.090	27.174	40.307	1.00 29.49	1DIK2249
MOTA	2158	CA	asn	286	1.844	25.921	41.001	1.00 26.41	1D1K2250
ATOM	2159	C	ASN	286	3.140	25.106	41.045	1.00 28.02	1DIK2251
MOTA	2160	0	ASN	286	3.825	24.958	40.031	1.00 29.27	1DIK2252
ATOM	2161	CB	ASN	286	0.747	25.148			
ATOM	2162	čč	ASN				40.278	1.00 22.60	1DIK2253
				286	0.176	24.038	41.118	1.00 25.66	1DIK2254
ATOM	2163	OD 1		286	0.822	23.009	41.330	1.00 27.94	1DIK2255
MOTA	2164	ND2		286	-1.039	24.236	41.611	1.00 22.58	1DIK2256
MOTA	2165	N	PRO	287	3.506	24.576	42.225	1.00 30.51	1DIK2257
ATOM.	2166	CA	PRO	287	4.739	23.780	42.340	1.00 31.36	101K2258
ATOM	2167	Ċ	PRO	287	4.852	22.670	41.288	1.00 31.71	1DIK2259
ATOM	2168	ŏ	PRO	287	5.931	22.427	40.750		10182233
ATOM	2169	ČВ	PRO	287					1DIK2260
					4.658	23.221	43.762	1.00 29.15	1DIK2261
ATOM	2170	CG	PRO	287	3.923	24.320	44.499	1.00 32.66	1DIK2262
ATOM	2171	CD	PRO	287	2.821	24.691	43.527	1.00 29.14	1DIK2263
MOTA	2172	И	LEU	288	3.741	22.000	40.992	1.00 31.66	1DIX2264
ATOM	2173	. CA	LEU	288	3.734	20.926	39.999	1.00 30.96	1DIK2265
MOTA	2174	С	LEU	288	3.054	21.320	38.673	1.00 31.70	1DIK2266
ATOM	2175	ō	LEU	288	2.710	20.447	37.861	1.00 32.44	1DIK2267
MOTA	2176	ĊВ	LEU	288				1.00 37.50	
					3.071	19.673	40.584	1.00 27.59	101K226B
MOTA	2177	CG	LEU	288	3.854	19.025	41.731	1.00 27.62	1DIK2269
MOTA	2178	CDI		288	3.039	17.913	42.364	1.00 28.75	1DIK2270
ATOM	2179	CD2	LEU	288	5.177	18.502	41.206	1.00 25.46	1DIK2271
ATOM	2180	N	GLY	289	2.877	22.626	38.458	1.00 29.27	1DIK2272
MOTA	2181	CA	GLY	289	2.240	23.121	37.245	1.00 28.87	1DIK2273
ATOM	2182	c	GLY	289	3.038	22.806	35.990	1.00 28.45	1DIK2274
ATOM	2183	ŏ	GLY	289			33.330		
					2.591	22.015	35.152	1.00 25.00	10IK2275
ATOM	2184	N	PRO	290	4.227	23.414	35.827	1.00 26.67	1DIK2276
ATOM	2185	CA	PRO	290	5.075	23.169	34.654	1.00 27.05	1DIK2277
MOTA	2186	C	PRO	290	5.420	21.667	34.473	1.00 27.87	1DIK2278
ATOM	2187	0	PRO	290	5.590	21.194	33.349	1.00 28.39	1DIK2279
ATOM	2188	ĊВ	PRO	290	6.312	24.034	34.945	1.00 25.95	1DIX2280
MOTA	2189	ČĞ	PRO	290	5.756		35 770		
						25.161	35.778	1.00 22.17	101K2281
MOTA	2190	CD	PRO	290	4.851	24.402	36.728	1.00 24.69	1DIX2282
ATOM	2191	N	THR	291	5.521	20.925	35.576	1.00 28.55	101K2283
MOTA	2192	CA	THR	291	5.807	19.495	35.525	1.00 23.19	1DIK2284
ATOM	2193	С	THR	291	4.778	18.742	34.668	1.00 23.08	1DIK2285
ATOM	2194	ō	THR	291	5.106	18.742 17.718	34.067	1.00 23.15	1DIK2286
HOTA	2195	ČВ	THR	291	5.862	18.902	36.958	1.00 21.42	1DIK2287
MOTA	2196		THR						
				291	7.129	19.213	37.530	1.00 19.92	1DIK2288
MOTA	2197		THR	291	5.684	17.395	36.968	1.00 14.25	1DIK2289
ATCM	2198	N	GLN	292	3.543	19.243	34.599	1.00 22.57	1DIK2290
MOTA	2199	CA	GLN	292	2.509	18.584	33.791	1.00 21.65	1DIK2291
ATOM	2200	С	GLN	292	2.805	18.650	32.283	1.00 19.91	1DIK2292
MOTA	2201	ō	GLN	292	2.227	17.904	31.494	1.00 23.11	1DIX2293
MOTA	2202	СВ	GLN	292	1.119				1DIK2294
						19.190	34.046	1.00 18.92	
ATOM	2203	CG	GLN	292	0.656	19.202	35.487	1.00 23.26	1DIK2295
MOTA	2204	CD	GLN	292	0.821	17.867	36.187	1.00 24.01	1DIK2296
ATOM	2205		GLN	292	0.122	16.902	35.892	1.00 25.86	1DIK2297
ATOM	2206	NE2	GLN	292	1.752	17.809	37.127	1.00 26.50	1DIK2298
MOTA	2207	N	GLY	293	3.709	19.528	31.879	1.00 17.82	1DIK2299
ATOM	2208	CA	GLY	293	3.993	19.650	30.472	1.00 17.52	1DIK2300
ATOM	2209	č	GLY	293	5.284	19.050	70 000	1.00 21.21	1DIK2301
					5.204		29.990 28.799		
MOTA	2210	0	GLY	293	5.581	19.184	28.799	1.00 23.37	1DIK2302
MOTA	2211	N	VAL	294	6.054	18.391	30.859	1.00 19.02	1DIK2303
MOTA	2212	CA	VAL	294	7.329	17.838	30.403	1.00 17.89	1DIK2304
MOTA	2213	C	VAL	294	7.202	16.680	29.426	1.00 18.74	101K2305
ATOM	2214	ō	VAL	294	8.009	16.588	28.495	1.00 25.27	10IK2306
ATOM	2215	ČВ	VAL	294	8.292	17.477		1.00 18.75	101K2307
						10 777	31.558	1 00 10 03	
MOTA	2216		VAL	294	8.596	18.722	32.382	1.00 19.92	101K2308
ATOM	2217	CG2	VAL	294	7.707	16.415	32.425	1.00 24.87	10IK2309

MOTA	2218	N	GLY	295	6.205	15.815	29.609	1.00 17.01	10IK2310
ATOM	2219	CA	GLY	295	6.003	14.701	28.692	1.00 16.78	1DIK2311
ATOM	2220	C	GLY	295	5.870	15.193	27.258	1.00 21.51	1DIK2312
MOTA	2221	0	GLY	295	6.561	14.697	26.345	1.00 20.80	1DIK2313
MOTA	2222	N	TYR	296 .	4.988	16.177	27.055	1.00 16.60	1DIK2314
ATOM	2223	CA	TYR	296	4.780	16.767	25.739	1.00 16.58	1DIK2315
ATOM	2224	C	TYR	296	6.063	17.410	25.193	1.00 20.08	1DIK2316
MOTA	2225	0	TYR	296	6.371	17.314	23.996	1.00 20.96	1DIK2317
MOTA	2226	CB	TYR	296	3.686	17.823	25.803	1.00 17.05	1DIK2318
MOTA	2227	CG	TYR	296	3.273	18.295	24.437	1.00 16.86	1DIK2319
ATOM	2228	CDI	TYR	296	2.388	17.541	23.676	1.00 17.02	1DIK2320
ATOM	2229	CD2	TYR	296	3.774	19.483	23.896	1.00 15.90	1DIK2321
MOTA	2230	CEl	TYR	296	2.006	17.942	22.418	1.00 16.51	1DIK2322
MOTA	2231	CEZ	TYR	296	3.399	19.897	22.637	1.00 17.02	1DIK2323
MOTA	2232	cz	TYR	296	2.510	19.117	21.899	1.00 20.60	1DIK2324
MOTA	2233	OH	TYR	296	2.101	19.495	20.640	1.00 22.06	1DIK2325
ATOM	2234	N	ALA	297	6.798	18.076	26.081	1.00 20.78	1DIK2326
MOTA	2235	CA	ALA	297	8.054	18.726	25.730	1.00 20.65	1DIK2327
MOTA	2236	ç	ALA	297	9.079	17.698	25.239 24.267	1.00 18.75	1DIK2328
MOTA	2237	0_	ALA.	297	9.795	17.942	24.267	1.00 20.26	1DIK2329
MOTA	2238	СВ	ALA	297	8.599	19.487	26.934	1.00 20.11	1DIK2330
MOTA	2239	N	ASN	298	9.156	16.549	25.904	1.00 14.67	1DIK2331
MOTA	2240	CA	ASN	298	10.088	15.507	25.479	1.00 15.91	· 1DIK2332
MOTA	2241	ç	ASN	298	9.656	14.898	24.146	1.00 17.04	1DIK2333
MOTA	2242	0	ASN	298	10.498	14.429	23.373	1.00 18.62	1DIK2334
MOTA	2243	CB	ASN	298	10.226	14.433	26.553	1.00 16.51	1DIK2335
MOTA	2244	CG	ASN	298 298	11.093	14.888	27.702	1.00 19.39	1DIK2336
ATOM	2245 2246		ASN ASN	298	12.127 10.686	15.533 14.559	27.494 28.919	1.00 18.34	1DIK2337 1DIK2338
MOTA MOTA	2247	N	GLU	299	8.348	14.900	23.879	1.00 18.29	101K2339
ATOM	2248	CA	CLU	299	7.828	14.403	22.608	1.00 20.08	1DIK2340
MOTA	2249	c	GLU	299	8.214	15.404	21 515	1.00 19.66	1DIK2341
ATOM	2250	ŏ	GLU	299	8.519	15.012	21.515 20.385	1.00 18.23	1DIK2342
ATOM	2251	čв	GLU	299	6.309	14.226	22.649	1.00 17.35	1DIK2343
ATOM	2252	ČĞ	GLU	299	5.877	13.046	23.478	1.00 20.50	1DIK2344
MOTA	2253	CD	GLU	299	4.383	12.754	23.393	1.00 24.46	1DIK2345
ATOM	2254		GLU	299	3.576	13.690	23.181	1.00 17.82	1DIK2346
ATOM	2255		GLU	299	4.013	11.572	23.542	1.00 22.37	1DIK2347
ATOM	2256	N	LEU	300	8.206	16.693	21.859	1.00 19.59	1DIK2348
MOTA	2257	CA	LEU	300	8.596	17.739	20.917	1.00 20.13	1DIK2349
ATOM	2258	č.	LEU	300	10.095	17.600	20.593	1.00 20.28	1DIK2350
ATOM	2259	ō	LEU	300	10.487	17.665	19.422	1.00 22.61	1DIX2351
MOTA	2260	СВ	LEU	300	8.289	19.125	21.488	1.00 21.25	1DIK2352
MOTA	2261	CG	LEU	300	8.649	20.287	20.559	1.00 24.96	1DIK2353
ATOM	2262		LEU	300	7.930	20.151	19.230	1.00 24.02	10IK2354
MOTA	2263	CDZ		300	8.269	21.578	21.219	1.00 16.85	1DIK2355
ATOM	2264	N	ILE	301	10.926	17.400	21.624	1.00 18.80	1DIK2356
MOTA	2265	CA	ILE	301	12.373	17.213	21.444	1.00 15.04	1DIK2357
ATOM	2266	С	ILE	301	12.587	16.017	20.484	1.00 20.56	1DIK2358
MOTA	2267	0	ILE	301	13.429	16.056	19.575	1.00 18.58	10IK2359
ATOM	2268	CB	ILE	301	13.059	16.937	22.812	1.00 16.02	10IK2360
MOTA	2269	CGl	ILE	301	13.004	18.194	23.686	1.00 17.32	1DIK2361
ATOM	2270	CG2	ILE	301	14.498	16.487	22.626	1.00 6.56	1DIK2362
MOTA	2271	CDl	ILE	301	13.594	18.005	25.064	1.00 14.26	1DIK2363
MOTA	2272	M	ALA	302	11.806	14.958	20.685	1.00 20.02	1DIK2364
ATOM	2273	CA	ALA	302	11.891	13.776	19.840	1.00 20.23	1DIK2365
ATOM	2274	c	ALA	302	11.610	14.139	18.375	1.00 21.81	10IK2366
ATOM	2275	0	ALA	302	12.326	13.708	17.470	1.00 19.81	1DIK2367
MOTA	2276	CB	ALA	302	10.912	12.718	20.327	1.00 20.45	1DIK2368
ATOM	2277	N ·	ARG	303	10.577	14.943	18.138	1.00 20.13	10IK2369
MOTA	2278	CA	ARG	303	10.227	15.329	16.774	1.00 17.34	1DIX2370
MOTA	2279	C	ARG	303	11.245	16.267	16.093	1.00 19.34	1DIK2371
MOTA	2280	0	ARG	303	11.569	16.095	14.907	1.00 15.37	1DIK2372
MOTA	2281	CB	ARG	303	8.816	15.934	16.750	1.00 15.85	10IX2373,
ATOM	2282	CG	ARG	303	7.715	14.914	17.021	1.00 12.30	10IK2374
MOTA	2283	CD	ARG	303	6.353	15.572	17.215	1.00 11.98	10IK2375
ATOM	2284	NE	ARG	303	5.287	14.572	17.315	1.00 11.60	1DIK2376
ATOM	2285	CŽ	ARG	303	3.989	14.836	17.456	1.00 15.17	1DIK2377
HOTA	2286	NH1		303	3.538	16.088	17.540	1.00 11.46	1DIK2378
ATOM	2287	NHZ		303 .	3.132	13.830	17.519	1.00 15.32	1DIK2379
MOTA	2288	N	LEU	304	11.752 12.722	17.247	16.838 16.289	1.00 16.06	10IK2380
ATOM	2289	CA	LEU	304	14.722	18.188	10.243	1.00 18.27	1DIK2381
MOTA	2290	c	LEU	304 304	14.026	17.480	15.922	1.00 20.93	1DIK2382
MOTA	2291	0	LEU	304	14.638 13.020	17.772	14.897		1DIK2383
ATOM	2292	CB	LEU	304		19.309	17.292	1.00 12.77	1DIK2384
ATOM	2293	CG	LEU	304	11.882 12.289	20.262	17.643	1.00 20.49	1DIK2385
ATOM ATOM	2294		LEU	304		21.157	18.805	1.00 17.27	101K2386 101K2387
	2295			305	11.509	21.083	16.416	1.00 22.28	
MOTA	2296	N	THR	305	14.450	16.546	16.763	1.00 21.43	1DIK2388
ATOM	2297	CA	THR	305 305	15.686	15.823	16.518	1.00 22.45	1DIK2389
MOTA MOTA	2298	C	THR	305	15.510	14.475	15.803	1.00 23.67	1DIK2390 1DIK2391
ATOM	2299	O CB	THR THR	305	16.491 16.429	13.788	15.552	1.00 25.10	
ATOM	2300 2301		THR	305	15.622	15.589	17.843		101K2392
			THR	305	16.712	14.782	18.711	1.00 26.81	1DIK2393
MOTA	2302	-62	70%		10.712	16.906	18.530	1.00 16.41	10IK2394

ATOM	2303	N	HIS	306	14.276	14.100	16 476	1.00 24.74	15745346
			HIS				15.476		1DIK2395
ATOM	2304	CA		306	13.982	12.815	14.815	1.00 28.44	1DIK2396
ATOM	2305	C	HIS	306	14.566	11.628	15.600	1.00 27.46	1DIK2397
MOTA	2306	0	HIS	306					
					15.122	10.704	15.012	1.00 33.56	1DIK2398
ATOM	2307	CB	HIS	306	14.519	12.796	13.374	1.00 27.83	1DIK2399
ATOM	2308	CG	HIS	306	14.236	14.053	12.613	1.00 33.95	1DIK2400
ATOM	2309	NDI							
				306	12.959	14.447	12.268	1.00 35.48	1DIK2401
MOTA	2310	CD2	HIS	306	15.065	15.022	12.155	1.00 32.87	1DIK2402
ATOM	2311	CEL	HTS	306	13.013	15.604	11.633	1.00 35.66	
		NE2						1.00 33.00	1DIK2403
ATOM	2312			306	14.280	15.974	11.552	1.00 35.02	1DIK2404
MCTA	2313	N	SER	307	14.429	11.654	16.919	1.00 22.90	1DIK2405
MOTA	2314	CA	SER	307	14.956				
						10.606	17.779	1.00 24.39	1DIK2406
ATOM	2315	C	SER	307	13.858	10.081	18.684	1.00 27.25	1DIK2407
ATOM	2316	0	SER	307	12.864	10.768	18.920	1.00 31.56	1DIK2408
ATOM	2317	CB	SER	307	16.050	11.175		1.00 22.96	
							18.662		1DIK2409
ATOM	2318	OG	SER	307	16.779	12.147	17.948	1.00 39.77 1.00 28.75	1DIK2410
ATOM	2319	N	PRO	308	14.014	8.845	19.201	1.00 28.75	1DIK2411
ATOM	2320	CA	PRO	308	13.004	8.260		1.00 26.08	
					13.007		20.094	1.00 20.00	1DIK2412
ATOM	2321	C	PRO	308	12.764	9.127	21.322	1.00 23.85	1DIK2413
ATOM	2322	0	PRO	308	13.614	9.921	21.711	1.00 22.93	1DIK2414
ATOM	2323	CB	PRO	308	13.609	6.899	20.450	1.00 25.36	
					13.003				1DIK2415
MOTA	2324	CG	PRO	. 308	14.416	6.567	19.204	1.00 24.66	1DIK2416
ATOM	2325	CD	PRO	308	15.109	7.886	18.963	1.00 25.37	1DIK2417
ATOM	2326	N	VAL	309	11.601	8.968	21.932	1.00 25.92	1DIK2418
	2327							1.00 23.32	
ATOM		CA	VAL	309	11.250	9.744	23.105	1.00 23.97	1DIK2419
ATOM	2328	C	VAL	309	11.959	9.207	24.348	1.00 28.96	1DIK2420
MOTA	2329	0	VAL	309	12.050	7.990	24.554	1.00 28.02	
									1DIK2421
ATOM	2330	CB	VAL	309	9.725	9.692	23.367	1.00 19.99	1DIK2422
ATOM	2331	CGl	VAL	309	9.351	10.630	24.506	1.00 14.96	1DIK2423
MOTA	2332	CG 2	VAL	309	8.963	10.053	22.112	1.00 21.23	
ATOM	2333	N							1DIK2424
ATOM			HIS	310	12.480	10.118	25.166	1.00 32.25	1DIK2425
ATOM	2334	CA	HIS	310	13.101	9.751	26.433	1.00 30.63	1DIK2426
ATOM	2335	C	HIS	310	12.270	10.503	27.447	1.00 28.25	1DIK2427
									IDIKETEI
ATOM	2336	0_	HIS	310	12.459	11.699	27.668	1.00 29.12	1DIK2428
ATOM	2337	CB	HIS	310	14.573	10.160	26.502	1.00 35.26	1DIK2429
ATOM	2338	CG	HIS	310	15.477	9.219	25.772	1.00 46.85	1DIK2430
MOTA	2339	ND1		310	15.732	9.329			
ATOM	2340	CD2					24.418		1DIK2431
				310	16.148	8.117	26.191	1.00 52.66	1DIK2432
ATOM	2341	CEI		310	16.517	8.339	24.032	1.00 54.18	1DIK2433
ATOM	2342	NE2	HIS	310	16.784	7.588	25.089	1.00 57.76	1DIK2434
ATOM	2343	N	ASP	311	11.326	9.795	28.047	1.00 25.80	1DIK2435
ATOM	2344	CA	ASP						
				311	10.450	10.404	29.019	1.00 24.79	1DIK2436
ATOM	2345	C	ASP	311	9.947	9.348	29.959	1.00 26.98	1DIK2437
ATOM	2346	0	ASP	311	9.707	8.212	29.564	1.00 29.31	10IK2438
ATOM	2347	CB	ASP	311	9.257	11.064	28.317	1.00 25.99	1DIK2439
ATOM	2348	ČĞ	ASP						
				311	8.239	11.619	29.292	1.00 24.92	1DIK2440
ATOM	2349	OD1		311	8.498	12.703 10.982	29.844	1.00 24.37	10IK2441
MOTA	2350	OD 2	ASP	311	7.184	10.982	29.512	1.00 21.07	1DIK2442
MOTA	2351	N	ASP	312	9.779	9.740	31.210	1.00 29.33	1DIK2443
ATOM	2352	CA	ASP					1.00 27.55	
				312	9.269	B.849	32.217	1.00 29.81	1DIK2444
ATOM	2353	C	ASP	312	8.262	9.626	33.072	1.00 32.06	1DIK2445
ATOM	2354	0	ASP	312	8.201	9.465	34.294	1.00 33.19	1DIK2446
	2355	СВ				2.703			
ATOM			ASP	312	10.422	8.309	33.061	1.00 32.29	1DIK2447
ATOM	2356	CG	ASP	312	10.034	7.062	33.861	1.00 40.96	1DIK2448
MOTA	2357	001	ASP	312	8.902	6.523	33.695	1.00 37.90	101K2449
MOTA	2358	ODZ	ASP	312					
					10.882	6.616	34.668	1.00 46.83	1DIK2450
MOTA	2359	N	THR	313	7.470	10.475	32.424	1.00 28.45	1DIK2451
ATOM	2360	CA	THR	313	6.472	11.250	33.143	1.00 26.99	1DIK2452
ATOM	2361	С	THR	313	5.040	10.924	32.685	1.00 27.21	1DIK2453
HOTA	2362	ō	THR	313			32.005		
					4.455	9.940	33.145	1.00 25.95	1DIK2454
MOTA	2363	CB	THR	313	6.762	12.771	33.043	1.00 27.49	1DIK2455
ATOM	2364	0G1	THR	313	6.694	13.193	31.671	1.00 21.29	1DIK2456
ATOM	2365	CG2	THR	313	8.164	13.075	33.597	1.00 23.59	1DIK2457
ATOM									
	2366	N	SER	314	4.476	11.726	31.785	1.00 24.25	1DIK2458
ATOM	2367	CA	SER	314	3.105	11.510	31.326	1.00 20.48	1DIK2459
MOTA	2368	С	SER	314	2.936	10.702	30.042	1.00 20.74	1DIK2460
ATOM	2369	ō	SER				20.712		
				314	1.821	10.289	29.712		1DIK2461
MOTA	2370	CB	SER	314	2.409	12.867	31.160	1.00 20.21	1DIK2462
ATOM	2371	OG	SER	314	3.137	13.722	30.286	1.00 23.16	101K2463
MOTA	2372	N	SER	315	4.028	10.468	29.317	1.00 21.85	101K2464
				200					
ATOM	23/3	CA	SER	313	3.923	9.757	28.055	1.00 20.97	1DIK2465
MOTA	2374	C	SER	315	* 3.568	8.288	28.141	1.00 23.67	1DIK2466
ATOM	2375	0	SER	315	3.890	7.593	29.111	1.00 26.91	1DIK2467
ATOM	2376	CB	SER	315	5.187			1.00 18.40	1DIK2468
						9.953	27.200		
MOTA	2377	OG	SER	315	6.313	9.245	27.685	1.00 1B.66	1DIK2469
ATOM	2378	N	ASN	316	2.885	7.830	27.102	1.00 23.83	1DIK2470
MOTA	2379	CA	ASN	316	2.489	6.440	26.964	1.00 24.79	1DIK2471
								1 40 47.73	
MOTA	2380	c	ASN	316	3.689	5.793	26.225	1.00 23.66	1DIK2472
MOTA	2381	0	ASN	316	3.929	6.088	25.047	1.00 24.08	1DIX2473
MOTA	2382	CB	ASN	316	1.205	6.394	26.130	1.00 24.17	1DIK2474
ATOM	2383	CG	ASN	316	0.621	5.012	26.011	1.00 20.87	1DIK2475
ATOM	2384		ASN	316					
					1.331	4.026	25.849	1.00 26.91	1DIK2476
ATOM	2385		ASN	316	-0.690	4.936	26.081	1.00 24.90	1DIK2477
ATOM	2386	N	HIS	317	4.439	4.930	26.918	1.00 19.55	1DIK2478
ATOM	2387	CA	HIS	317	5.627	4.274	26.341	1.00 17.40	1DIK2479
				- 4 *	3.021	7.214	40.J4T	2.00 17.70	TOTETALS

ATOM	2388	C	HIS	317	5.289	3.406	25.149	1.00 18.22	1DIK2480
ATOM	2389	Ö	HIS	317	6.015	3.392	24.152	1.00 21.43	1DIK2481
MOTA	2390	CB	HIS	317	6.341	3.401	27.380	1.00 19.52	1DIK2482
ATOM	2391	CG	HIS	317	6.708	4.125	28.640	1.00 25.20	1DIK2483
MOTA	2392	ND1	HIS	317	7.379	5.332	28.643	1.00 28.94	1DIK2484
ATOM	2393	CD2	HIS	317	6.503	3.808	29.940	1.00 26.03	1DIK2485
ATOM	2394	CE1		317 .	7.571	5.728	29.888	1.00 27.28	
									1DIK2486
MOTA	2395	NE2	HIS	317	7.049	4.821	30.694	1.00 31.03	1DIK2487
MOTA	2396	N	THR	318	4.187	2.670	25.255	1.00 18.44	1DIK2488
								1 00 10 00	
MOTA	2397	CA	THR	318	3.740	1.800	24.180	1.00 18.99	1DIK2489
ATOM	2398	С	THR	318	3.329	2.644	22.978	1.00 21.41	1DIK2490
ATOM	2399	0	THR	318	3.764	2.399	21.851	1.00 20.04	1DIK2491
ATOM	2400	CB	THR	318	2.544	0.955	24.632	1.00 18.88	1DIK2492
ATOM	2401	OG1	THR	318	2.889	0.310	25.857	1.00 18.06	1DIK2493
MOTA	2402	CG2	THR	318	2.188	-0.116	23.594	1.00 14.25	1DIK2494
							43.334		
MOTA	2403	N	LEU	319	2.500	3.650	23.221	1.00 20.99	1DIK2495
ATOM	2404	CA	LEU	319	2.030	4.509	22.151	1.00 21.53	1DIK2496
ATOM	2405	C	LEU	319	3.171	5.205	21.383	1.00 25.B0	1DIK2497
ATOM	2406	0	LEU	319	3.091	5.371	20.165	1.00 25.17	1DIK2498
MOTA	2407	CB	LEU	319	1.085	5.541	22.733	1.00 20.62	1DIK2499
	2408		LEU	319	0.100		21 761		10773600
MOTA		CG				6.148	21.761		1DIK2500
ATOM	2409	CDI	LEU	319	-0.686	5.029	21.099	1.00 23.07	1DIK2501
ATOM	2410	CD2	LEU	319	-0.819	7.079	22.522	1.00 20.45	1DIK2502
	2411	N	ASP	320	4.234	5 603	22 006		
ATOM						5.603	22.085	1.00 24.35	1DIK2503
ATOM	2412	CA	ASP	320	5.360	6.297	21.445	1.00 22.47	1DIK2504
ATOM	2413	C	ASP	320	6.493	5.459	20.884	1.00 21.00	1DIK2505
								1 00 17 00	
MOTA	2414	0	ASP	320	7.437	6.005	20.317	1.00 17.90	1D1K2506
ATOM	2415	CB	ASP	320	5.956	7.325	22.403	1.00 19.58	1DIK2507
MOTA	2416	CG	ASP	320	5.061	8.531	22.582	1.00 22.62	1DIK2508
ATOM	2417		ASP	320	3.909	8.509	22.092	1.00 22.05	101K2509
ATOM	2418	OD2	ASP	320	5.509	9.505	23.214	1.00 18.12	1DIX2510
ATOM	2419	N	SER	321	6.407			1.00 22.21	1DIK2511
						4.143	21.024		
ATOM	2420	CA	SER	321	7.477	3.271	20.556	1.00 25.24	101K2512
ATOM	2421	С	SER	321	7.416	2.869	19.082	1.00 25.75	10IK2513
		ō	SER		8.382	2.315	18.539	1.00 25.63	
ATOM	2422			321					1DIK2514
ATOM	2423	CB	SER	321	7.496	2.023	21.417	1.00 23.95	1DIK2515
ATOM	2424	OG	SER	321	6.265	1.358	21.278	1.00 33.89	1DIK2516
ATOM	2425	N	SER	322	6.288	3.155	18.441	1.00 27.36	1DIK2517
ATOM	2426	CA	SER	322	6.084	2.776	17.053	1.00 27.84	1DIK2518
MOTA	2427	С	SER	322	5.695	3.928	16.118	1.00 27.85	1DIK2519
MOTA	2428	0	SER	322	4.948	4.838	16.502	1.00 26.35	101K2520
MOTA	2429	CB	SER	322	5.016	1.677	17.007	1.00 27.18	1DIK2521
MOTA	2430	OG	SER	322	4.568	1.439	15.688	1.00 34.11	1DIK2522
ATOM	2431	N	PRO	323	6.206	3.895	14.872	1.00 27.40	1DIK2523
ATOM	2432	CA	PRO	323	5.967	4.880	13.807	1.00 27.34	1DIK2524
ATOM	2433	С	PRO	323	4.471	5.053	13.496	1.00 26.66	1DIK2525
ATOM									
ATOM	2434	0	PRO	323	4.037	6.111	13.049	1.00 29.69	1DIK2526
MOTA	2435	CB	PRO	323	6.713	4.276	12.611	1.00 27.47	10IK2527
ATOM	2436	CG	PRO	323	7.827	3.522	13.251	1.00 26.17	1DIK2528
AION									
ATOM	2437	CD	PRO	323	7.121	2.840	14.398	1.00 25.07	1DIK2529
ATOM	243B	N	ALA	324	3.685	4.014	13.732	1.00 23.94	1DIK2530
	2439	CA	ALA						1DIK2531
ATOM				324	2.258	4.086	13.465		
ATOM	2440	C	ALA	324	1.558	5.072	14.381	1.00 21.32	1DIK2532
ATOM	2441	0	ALA	324	0.598	5.712	13.984	1.00 24.85	1DIK2533
	2442	CB.						1.00 23.92	
ATOM			ALA	324	1.615	2.709	13.615		1DIK2534
ATOM	2443	N	THR	325	2.024	5.194	15.612	1.00 19.68	1DIK2535
ATOM	2444	CA	THR	325	1.379	6.097	16.537	1.00 18.15	1DIK2536
ATOM	2445	C ·	THR	325	2.260	7.256	16.940	1.00 20.32	1DIK2537
ATOM	2446	Ο.	THR	325	1.791	8.183	17.602	1.00 20.91	1DIK2538
ATOM	2447	CB	THR	325	0.898	5.350	17.764	1.00 18.83	1DIK2539
MOTA	2448	OG1		325	1.907	4.428	18.161	1.00 23.06	1DIX2540
					-0.375				
ATOM	2449	CG2	THR	325		4.579	17.451	1.00 18.83	1D1K2541
ATOM	2450	N	PHE	326	3.532	7.202	16.548	1.00 19.80	1D1K2542
ATOM	2451	CA	PHE	326	4.467	8.282	16.824	1.00 18.01	1DIK2543
ATOM							16 707		
MOTA	2452	c	PHE	326	5.605	8.328	15.787		1DIK2544
ATOM	2453	0	PHE	326	6.725	7.875	16.046	1.00 20.23	1DIK2545
ATOM	2454	CB	PHE	326	5.024	8.183	18.256	1.00 22.80	1DIK2546
ATOM	2455	CG	PHE	326	5.620	9.478	18.761	1.00 20.42	1DIK2547
ATOM	2456	CD1	PHE	326	4.810	10.445	19.362	1.00 19.30	1DIX2548
MOTA	2457		PHE			9.755		1.00 15.81	10IK2549
7100	2431	CD2	2112	326	6.979	3.133	18.595		10146517
ATOM	245B	CE 1	BHE	326	5.340	11.680	19.790	1.00 12.22	1DIK2550
ATOM	2459		PHE	326	7.515	10.984	19.018	1.00 18.58	1DIK2551
								1.00 14.93	1DIK2552
ATOM	2460	CZ	PHE	326	6.686	11.948	19.617		
MOTA	2461	N	PRO	327	5.323	8.876	14.588	1.00 18.42	10IK2553
MOTA	.2462	CA	PRO	327	6.270	9.017	13.473	1.00 19.53	1DIK2554
							12 70	1 00 21 71	
ATOM	2463	Ç	PRO	327	7.260	10.121	13.791 14.245	1.00 21.71	1DIK2555
ATOM	2464	0	PRO	327	6.875	11.203	14.245	1.00 21.90 1.00 16.34	1DIK2556
MOTA	2465	CB	PRO	327	5.388	9.449	12.300	1.00 16.34	1DIK2557
							12 745	1 00 17 33	
ATOM	2466	CG	PRO	327	3.995	9.168	12.745	1.00 17.33	1DIK2558
ATOM	2467	CD	PRO	327	4.013	9.422	14.211	1.00 16.80	1DIK2559
ATOM	2468	N	LEU	328	8.532	9.855	13.539	1.00 24.26	1DIK2560
	2469		LEU				12 012	1.00 23.81	101K2561
ATOM		CA		328	9.569	10.836	13.812		
MOTA	2470	Ç	LEU	328	9.967	11.618	12.566	1.00 24.00	1DIK2562
MOTA	2471	Ò	LEU	328	10.721	12.580	12.654	1.00 26.13	1DIK2563
ATOM	2472	СB	LEU	328	10.801		14.384		1DIK2564
AL OUT	- 116		250	-40	49.001	10.135	F2.704	1.00 22.63	10145104

ATOM	2473	CG	LEU	32B	10.576	9.272	15.625	1.00 25.54	10777565
ATOM	2474	CD1		328					1DIK2565
					11.869	8.560	15.990	1.00 24.58	1DIK2566
MOTA	2475	CD2	LEU	328	10.092	10.137	16.782	1.00 22.69	1DIX2567
MOTA	2476	N	ASN	329	9.473	11.220	11.403	1.00 26.61	
MOTA	2477	CA	ASN	329					1DIK2568
					9.865	11.919	10.198	1.00 29.63	1DIX2569
MOTA	2478	C	ASN	329	8.759	12.578	9.413	1.00 27.72	1DIX2570
ATOM	2479	0	ASN	329	8.941	12.876	8.243	1.00 32.13	1DIK2571
MOTA	2480	CB	ASN	329	10.686	11.001	9.288		
								1.00 36.18	1DIK2572
MOTA	2481	CG	ASN	329	12.075	10.733	9.843	1.00 48.05	1DIK2573
MOTA	2482	OD 1	ASN	329	12.927	11.632	9.873	1.00 52.99	1DIK2574
MOTA	2483	ND2		329	12.315	9.494	10.290	1.00 53.32	
									1DIK2575
MOTA	2484	И	SER	330	7.601	12.797	10.020	1.00 28.90	1DIK2576
ATOM	2485	CA	SER	330	6.550	13.530	9.313	1.00 30.10	1DIK2577
MOTA	2486	C	SER	330	7.141	14.938	9.429	1.00 33.67	1DIK2578
MOTA	2487	ō	SER	330		15 102	10 757		
					B.041	15.193	10.257	1.00 39.71	1DIK2579
MOTA	2488	CB	SER	330	5.212	13.489	10.054	1.00 27.33	1DIK2580
MOTA	2489	OG	SER	330	4.824	12.169	10.372	1.00 30.99	1DIK2581
MOTA	2490	N	THR	331	6.670	15.869	8.633	1.00 29.23	
									1DIK2582
MOTA	2491	CA	THR	331	7.260	17.198	8.729	1.00 29.49	1DIK2583
ATOM	2492	Ç	THR	331	6.303	18.150	9.420	1.00 25.32	1DIK2584
ATOM	2493	0	THR	331	6.714	19.147	10.005	1.00 22.51	1DIK2585
ATOM	2494	CB	THR	331	7.590	17.690			
							7.321	1.00 31.50	1DIK2586
MOTA	2495	0G1		331	8.453	16.737	6.705	1.00 27.95	1DIK2587
MOTA	2496	CG2	THR	331	8.242	19.035	7.343	1.00 36.14	1DIK2588
MOTA	2497	N	LEU	332	5.021	17.804	9.334	1.00 24.55	1DIK2589
ATOM	2498	CA	LEU	332					
					3.930	18.578	9.885	1.00 23.43	1DIK2590
MOTA	2499	С	LEU	332	3.168	17.760	10.916	1.00 21.17	1DIK2591
ATOM	2500	0	LEU	332	2.814	16.606	10.655	1.00 20.55	1D1K2592
MOTA	2501	CB	LEU	332	2.965	18.972	8.756	1.00 23.10	1DIK2593
MOTA	2502	ČĞ	LZU						
				332	3.542	19.823	7.625	1.00 25.75	1DIK2594
MOTA	2503	CDI	LEU	332	2.598	19.836	6.431	1.00 21.25	1DIK2595
MOTA	2504	CD2	LEU	332	3.802	21.223	B.145	1.00 19.61	1DIK2596
ATOM	2505	N	TYR	333	2.916	18.361	12.076	1.00 19.69	
									1DIK2597
ATOM	2506	CA	TYR	333	2.154	17.720	13.152	1.00 17.57	1DIK2598
MOTA	2507	С	TYR	333	1.101	18.691	13.706	1.00 14.59	1DIK2599
MOTA	2508	0	TYR	333	1.304	19.910	13.718	1.00 17.04	1DIK2600
ATOM	2509	СB	TYR	333	3.076		14 301		
						17.317	14.301	1.00 16.40	1DIK2601
MOTA	2510	CG	TYR	333	4.150	16.329	13.944	1.00 15.46	1DIK2602
ATOM	2511	CDl	TYR	333	3.927	14.962	14.058	1.00 16.50	1DIK2603
MOTA	2512		TYR	333	5.399	16.758	13.519	1.00 15.19	1DIK2604
									1012204
MOTA	2513	CEl	TYR	333	4.929	14.039	13.758	1.00 19.21	1DIK2605
MOTA	2514	CEZ	TYR	333	6.412	15.845	13.214	1.00 19.07	1DIK2606
MOTA	2515	CZ	TYR	333	6.170	14.487	13.338	1.00 20.05	1DIK2607
MOTA	2516	OH	TYR	333	7.165	13.580		1.00 20.29	
							13.056		- 1DIX2608
MOTA	2517	N	ALA	334	-0.022	18.154	14.161	1.00 11.62	1DIK2609
MOTA	2518	CA	ALA	334	-1.072	18.971	14.764	1.00 14.11	1DIK2610
ATOM	2519	C	ALA	334	-1.642	18.190	15.952	1.00 17.81	1DIK2611
ATOM	2520	ō	ALA	334			15 000	1.00 20.52	
					-2.001	17.014	15.808		1DIK2612
ATOM	2521	CB	ALA	334	-2.169	19.291	13.763	1.00 6.64	1DIKZ613
ATOM	2522	N	ASP	335	-1.706	18.842	17.117	1.00 15.89	1DIK2614
ATOM	2523	CA	ASP	335	-2.234	18.234	18.334	1.00 15.85	1DIK2615
		c							
MOTA	2524		ASP	335	-3.350	19.116	18.877	1.00 19.02	1DIK2616
ATOM	2525	0	ASP	335	-3.261	20.350	18.823	1.00 17.86	1DIK2617
ATOM	2526	CB	ASP	3 35	-1.126	18.059	19.392	1.00 16.00	1DIK2618
MOTA	2527	CG	ASP	335	-0.099	16.997	19.001	1.00 20.47	1DIK2619
ATOM	2528	OD1	ASP	335	-0.502	15.948	18.466	1.00 22.42	1DIK2620
MOTA	2529	002	ASP	335	1.112	17.201	19.224	1.00 20.56	1DIK2621
MOTA	2530	И	PHE	336	-4.402	18.481	19.395	1.00 18.17	1D1K2622
ATOM	2531	CA	PHE	336	-5.543		19.937	1.00 17.35	
						19.200			1DIK2623
MOTA	2532	C	PHE	336	-5.774	18.839	21.402	1.00 19.88	1DIK2624
ATOM	2533	0	PHE	336	-5.815	17.655	21.776	1.00 19.43	1DIK2625
MOTA	2534	CB	PHE	336	-6.778	18.940	19.066	1.00 17.54	101x2626
MOTA	2535	CG	SHG	336	-6.594	19.394	17.655	1.00 14.71	1DIK2627
MOTA	2536	CD1		336	-5.954	18.577	16.728	1.00 14.86	1DIX2628
MOTA	2537	CD2	PHE	336	-6.978	20.676	17.271	1.00 14.13	1DIK2629
ATOM	2538	CE1	PHE	336	-5.688	19.036	15.434	1.00 19.47	1DIK2630
ATOM	2539		PHE	336	-6.721	21.148	15.987	1.00 13.80	1DIX2631
MOTA	2540	CZ	BHE	336	-6.072	20.328	15.065	1.00 15.97	1DIX2632
MOTA	2541	N	SER	337	-5.933	19.881	22.219	1.00 16.75	1DIK2633
MOTA	2542	CA	SER	337	-6.096	19.713	23.642	1.00 15.92	1DIK2634
MOTA	2543	c	SER	337	-6.962	20.793	24.331	1.00 17.12	1DIK2635
MOTA	2544	0	SER	337	-7.708	21.549	23.684	1.00 15.10	1DIK2636
MOTA	2545	CB	SER	337	-4.696	19.692	24.251	1.00 13.71	1DIK2637
ATOM	2546	ŌĞ	SER	337	-4.698	18.968	25.455	1.00 18.65	1DIK2638
						20.700	20.733		
MOTA	2547	N	HIS	33B	-6.843	20.836	25.658	1.00 16.73	10IK2639
MOTA	2548	CA	HIS	338	-7.546	21.772	26.536	1.00 18.64	1DIK2640
MOTA	2549	C	HIS	338	-6.616	22.900	26.998	1.00 20.65	1DIK2641
	2550		HIS						
MOTA		0		338	-5.392	22.785	26.917	1.00 23.22	1DIX2642
MOTA	2551	CB	HIS	338>	-8.055	21.039	27.785	1.00 17.35	101K2643
ATOM	2552	CG	HIS	338	-8.942	19.871	27.483	1.00 21.37	1DIK2644
ATOM	2553		HIS	338	-10.309		27 146		101K2645
						19.990	27.345	1.00 21.44	
MOTA	2554		HIS	338	-8.654	18.566	27.265	1.00 16.55	1DIK2646
MOTA	2555		HIS	338	-10.824	18.809	27.053	1.00 21.79	1DIK2647
MOTA	2556		HIS	338	-9.841	17.931	26.998	1.00 19.02	1DIK2648
ATON	2557	N	ASP	339	-7.204	23.981	27.504	1.00 21.52	1DIX2649
					1.204	43.701	21.304	2.00 61.36	TO 1 V 7 D 4 3

MOTA	2558	CA	ASP	339	-6.436	25.120	27.983	1.00 19.43	1DIK2650
	2559	č	ASP	339	-5.452	24.739	29.079		
MOTA								1.00 18.53	1DIK2651
MOTA	2560	0	ASP	339	-4.301	25.170	29.052	1.00 22.28	1DIK2652
MOTA	2561	CB	ASP	339	-7.364	26.275	28.452	1.00 23.01	1DIK2653
ATOM	2562	CG ·	ASP	339	-8.397	25.856	29.528	1.00 25.24	1DIK2654
MOTA	2563	001		339	-8.560	24.654	29.838	1.00 27.53	1DIX2655
ATOM	2564	002		339	-9.066	26.759	30.075	1.00 27.85	1DIK2656
				340					
MOTA	2565	N	ASN		-5.B92	23.922	30.032		1DIK2657
MOTA	2566	CA	ASN	340	-5.035	23.514	31.141	1.00 17.73	1DIK2658
ATOM	2567	C	ASN	340	-3.750	22.830	30.712	1.00 19.02	1DIK2659
MOTA	2568	0	ASN	340	-2.666	23.210	31.161	1.00 21.77	1DIK2660
ATOM	2569	СВ	ASN	340	-5.810	22.643	32.111	1.00 19.49	1DIK2661
ATOM	2570	ČĞ	ASN	340	-6.815	23.443	32.908	1.00 22.56	1DIK2662
MOTA	2571	001		340	-6.752	24.662	32.945	1.00 25.89	1DIK2663
MOTA	2572	ND2		340	-7.743	22.762	33.552	1.00 28.53	1DIK2664
MOTA	2573	N	GLY	341	-3.858	21.831	29.845	1.00 17.89	1DIK2665
ATOM	2574	CA	GLY	341	-2.665	21.160	29.364	1.00 15.63	1DIK2666
MOTA	2575	C	GLY	341	-1.764	22.118	28.600	1.00 11.99	1DIK2667
ATOM	2576	ō	GLY	341	-0.549	22.077	28.735	1.00 16.11	1DIK2668
		N	ILE	342	-2.344	22 006	27.797		
MOTA	2577					22.996		1.00 13.11	1DIK2669
MOTA	2578	CA	ILE	342	-1.525	23.941	27.036	1.00 17.14	1DIK2670
ATOM	2579	C	ILE	342	-0.755	24.910	27.946	1.00 17.23	1DIK2671
MOTA	2580	O	ILE	342	0.410	25.214	27.694	1.00 17.60	1DIK2672
ATOM	2581	CB	ILE	342	-2.399	24.690	25.990	1.00 16.48	1DIK2673
MOTA	2582	CG1	ILE	342	-2.982	23.663	25.015	1.00 11.17	1DIK2674
		CG2		342	-1.574				
MOTA	2583		ILE			25.710	25.221	1.00 12.60	1DIK2675
MOTA	2584	CD1	ILE	342	-4.052	24.199	24.138	1.00 14.25	1DIK2676
MOTA	2585	N	ILE	343	-1.397	25.384	29.010	1.00 20.72	1DIK2677
ATOM	2586	CA	ILE	343	-0.747	26.296	29.948	1.00 20.28	1DIK2678
MOTA	2587	C	ILE	343	0.531	25.647	30.503	1.00 21.94	1DIK2679
ATOM	2588	ŏ	ILE	343	1.617	26.243	30.467	1.00 23.12	1DIK2680
	2589	ČВ	ÎLE	343	-1.703			1.00 17.08	1DIK2681
MOTA						26.677	31.124		
ATOM	2590	CG1	ILE	343	-2.757	27.671	30.638	1.00 12.06	1DIK2682
MOTA	2591	CG2	ILE	343	-0.911	27.321	32.277	1.00 12.92	1DIK2683
MOTA	2592	CDl		343	-2.152	29.042	30.271	1.00 11.66	1DIK2684
MOTA	2593	N	SER	344	0.394	24.424	31.006	1.00 20.30	1DIK2685
MOTA	2594	CA	SER	344	1.519	23.690	31.564	1.00 17.86	1DIK2686
ATOM	2595	C	SER	344	2.636	23.482	30.544	1.00 20.31	1DIK2687
		ŏ		344	3.825			1.00 19.02	
MOTA	2596		SER			23.604	30.881		1DIK2688
MOTA	2597	СВ	SER	344	1.036	22.344	32.081	1.00 18.82	1DIX2689
ATOM	2598	OG	SER	344	0.137	22.512	33.164	1.00 19.78	1DIK2690
ATOM	2599	N	ILE	345	2.248	23.170	29.302	1.00 19.86	1DIK2691
ATOM	2600	CA	ILE	345	3.194	22.940	28.205	1.00 19.61	1DIK2692
ATOM	2601	Č.	ILE	345	3.990	24.211	27.877	1.00 22.16	1DIX2693
ATOM	2602	ō	ILE	345	5.211	24.156	27.678	1.00 21.36	1DIK2694
									10182034
ATOM	2603	CB	ILE	345	2.460	22.420	26.936	1.00 17.67	1DIK2695
MOTA	2604	CG1	ILE	345	1.926	21.009	27.194	1.00 17.47	1DIK2696
ATOM	2605	CG2	ILE	345	3.389	22.402	25.738	1.00 10.81	1DIK2697
MOTA	2606	CD1	ILE	345	1.129	20.443	26.052	1.00 20.20	1DIK2698
ATOM	2607	N	LEU	346	3.290	25.347	27.828	1.00 21.51	1DIK2699
ATOM	2608	CA	LEU	346	3.906	26.645	27.558	1.00 21.18	1DIK2700
ATOM	2609	C	LEU	346	4.987	26.936	28.610	1.00 19.82	1DIK2701
ATOM	2610	0	LEU	346	6.078	27.401	28.281	1.00 22.60	1DIK2702
MOTA	2611	CB	LEU	346	2.838	27.754	27.559	1.00 21.21	1DIK2703
ATOM	2612	CG	LEU	346	1.787	27.761	26.430	1.00 25.27	1DIK2704
ATOM	2613	CD1	LEU	346	0.797	28.905	26.655	1.00 22.27	1D1K2705
ATOM	2614	CD2	LEU	346	2.457	27.910	25.067	1.00 19.78	1DIK2706
ATOM	2615	N	PHE	347	4.694	26.658	29.875	1.00 21.86	1DIK2707
				347			20.074		1DIK2708
ATOM	2616	CA	BHE		5.679	26.878	30.929	1.00 21.46	
MOTA	2617	C	PHE	347	6.825	25.881	30.884	1.00 24.47	1DIK2709
ATOM	2618	0_	PHE	347	7.981	26.282	31.064	1.00 23.78	1DIK2710
ATOM	2619	CB	PHE	347	5.006	26.903	32.300	1.00 22.55	101K2711
ATOM	2620	CG	PHE	347	4.289	28.189	32.566	1.00 19.15	1DIK2712
ATOM	2621	CD1	PHE	347	4.977	29.283	33.088	1.00 19.76	1DIK2713
MOTA	2622		PHE	347	2.953	28.332	32.233	1.00 17.59	1DIK2714
			PHE				32.233		
ATOM	2623			347	4.341	30.508	33.268		1DIK2715
MOTA	2624		SHE	. 347	2.311	29.542	32.407	1.00 21.97	1DIK2716
MOTA	2625	cz	PHE	347	3.007	30.638	32.926	1.00 20.72	1DIK2717
MOTA	2626	N	ALA	348	6.517	24.599	30.634	1.00 25.00	1DIK2718
ATOM	2627	CA	ALA	348	7.547	23.551	30.533	1.00 23.63	1DIK2719
ATOM	2628	c.	ALA	348	8.523	23.830	29.374	1.00 23.94	1DIK2720
ATOM	2629	ŏ	ALA	348				1.00 22.81	1DIK2721
					9.647	23.327	29.368		
MOTA	2630	CB	ALA	348	6.909	22.175	30.360	1.00 18.75	1DIK2722
MOTA	2631	N	LEU	349	8.096	24.624	28.394 27.279	1.00 23.18	1DIK2723
MOTA	2632	CA	LEU	349	B.969	24.977	27.279	1.00 24.76	1DIK2724
MOTA	2633	С	LEU	349	9.785	26.227	27.606	1.00 25.45	1DIK2725
ATOM	2634	ŏ	LEU	349	10.538	26.708	26.760	1.00 23.63	1DIK2726
			LEU	349					1DIK2727
MOTA	2635	CB			8.171	25.197	25.990	1.00 24.37	
MOTA	2636	CG	LEU	349	7.530	23.958	25.332	1.00 27.98	1DIK2728
MOTA	2637		LEU	349	6.813	24.399	24.054	1.00 24.59	1DIK2729
ATOM	2638	CD2	LEU	349	8.578	22.871	25.023	1.00 19.81	1DIK2730
ATOM	2639	N	GLY	350	9.625	26.745	28.827	1.00 25.68	1DIK2731
ATOM	2640	CA	GLY	350	10.370	27.916	29.269	1.00 27.97	101K2732
				350					
MOTA	2641	ç	GLY		10.009	29.236	28.611	1.00 30.96	101K2733
MOTA	2642	0	GLY	350	10.781	30.197.	28.671	1.00 31.89	1DIK2734

MOTA	2643	N	LEU	351	8.830	29.292	27.997	1.00 31.09	10147775
ATOM	2644	CA	LEU	351	8.367				1DIK2735
ATOH	2645	c	LEU	351		30.486	27.301	1.00 29.39	1DIK2736
ATOM	2646	ŏ	LEU	351	8.048	31.700	28.184	1.00 30.29	1DIK2737
MOTA	2647	СВ	LEU	351	8.092 7.147	32.841	27.722	1.00 28.55	1DIX2738
ATOM	2648	ČĞ	LEU	351	7.359	30.132	26.456	1.00 31.14	1DIX2739
ATOM	2649	CD1		351		28.989	25.467	1.00 29.30	1DIX2740
ATOM	2650	CDZ		351	6.063	28.718	24.722	1.00 28.64	1DIK2741
MOTA	2651	N		352	8.483	29.347	24.501	1.00 25.72	1DIK2742
			TYR		7.731	31.474	29.453	1.00 31.04	1DIX2743
ATOM	2652	CA	TYR	352	7.410	32.594	30.325	1.00 31.74	1DIK2744
MOTA	2653	ç	TYR	352	B.350	32.747	31.502	1.00 34.72	1DIK2745
ATCM	2654	0	TYR	352	7.942	33.102	32.613	1.00 33.44	1DIK2746
MOTA	2655	CB	TYR	352	5.953	32.484	30.752	1.00 26.97	1DIK2747
ATOM ATOM	2656	CG.	TYR	352	5.090	32.667	29.552	1.00 28.46	1DIK2748
	2657	CD1		352	4.916	33.932	29.003	1.00 27.92	1DIK2749
HOTA	2658	CD2	TYR	352	4.506	31.574	28.910	1.00 29.60	1DIK2750
ATOM	2659	CE1	TYR	352	4.190	34.118	27.846	1.00 30.02	1DIK2751
ATOM	2660	CEZ	TYR	352	3.773	31.745	27.745	1.00 30.26	101X2752
ATON	2661	CZ	TYR	352	3.622	33.029	27.220	1.00 32.93	1DIX2753
MOTA	2662	ОН	TYR	352	2.903	33.228	26.067	1.00 33.54	1DIK2754
MOTA	2663	N	ASN	353	9.626	32.484	31.236	1.00 40.74	1DIX2755
MOTA	2664	CA	ASN	353	10.669	32.582	32.251	1.00 47.39	1DIK2756
HOTA	2665	c	ASN	353	10.941	34.011	32.729	1.00 47.72	101K2757
ATOH	2666	0	ASN	353	11.505	34.206	33.802	1.00 46.72	1DIX2758
MOTA	2667	CB	ASN	353	11.966	31.932	31.749	1.00 49.39	1DIK2759
MOTA	2668	CG	ASN	353	11.931	30.406	31.832	1.00 53.90	1DIK2760
ATOM	2669	OD1		353	10.895	29.801	32.155	1.00 51.32	1DIK2761
MOTA	2670	ND2	ASN	353	13.071	29.774	31.537	1.00 57.79	1DIK2762
MOTA	2671	N	GLY	354	10.535	35.002	31.937	1.00 48.40	1DIK2763
MOTA	2672	CA	GLY	354	10.741	36.390	32.319	1.00 49.75	1DIK2764
MOTA	2673	c	GLY	354	9.531	36.974	33.032	1.00 49.81	1DIX2765
MOTA	2674	0	CLY	354	9.424	38.193	33.203	1.00 55.38	1DIK2766
MOTA	2675	N	THR	355	8.622	36.101	33.449	1.00 46.75	1DIK2767
ATOM	2676	CA	THR	355	7.396	36.496	34.135	1.00 46.22	1DIK2768
MOTA	2677	c	THR	355	7.536	36.191	35.631	1.00 47.74	1DIK2769
ATOM	2678	0_	THR	355	7.789	35.042	36.007	1.00 47.46	1DIK2770
MOTA	2679	CB	THR	355	6.180	35.691	33.556	1.00 42.82	1DIK2771
MOTA	2680	OG1	THR	355	6.147	35.847	32.131	1.00 43.0B	101K2772
MOTA	2681	CG2	THR	355	4.853	36.160	34.154	1.00 35.74	1DIK2773
MOTA	2682	N	LYS	356	7.388	37.202	36.486	1.00 44.73	101K2774
ATOM	2683	CA	LYS	356	7.478	36.960	37.926	1.00 42.43	101X2775
MOTA	2684	c	LYS	356	6.116	36.530	38.437	1.00 40.86	1DIK2776
ATOM	2685	0	LYS	356	5.103	36.849	37.813	1.00 42.40	1DIK2777
ATOM	2686	CB	LYS	356	7.942	38.210	38.664	1.00 41.47	1DIK2778
ATOM	2687	CG	LYS	356	9.438	38.349	38.668	1.00 42.08	1DIK2779
ATOM	2688	CD	LYS	356	9.866	39.579	39.406	1.00 42.64	1DIX2780
ATOM	2689	CE	LYS	356	11.351	39.719	39.346	1.00 42.34	101K2781
MOTA	2690	NZ	LYS	356	11.693	41.124	39.631	1.00 48.71	1DIK2782
ATOM	2691	N	PRO	357	6.069	35.806	39.577	1.00 38.87	1DIK2783
ATOM	2692	CA	PRO	357	4.777	35.358	40.120	1.00 39.88	1DIK2784
MOTA	2693	C	PRO	357	3.771	36.512	40.134	1.00 42.03	1DIK2785
ATOM	2694	0_	PRO	357	4.092	37.629	40.564	1.00 44.16	1DIK2786
MOTA	2695	CB	PRO	357	5.149	34.869	41.517	1.00 38.17	1DIK2787
MOTA	2696	CG	PRO	357	6.526	34.306	41.295	1.00 34.95	1DIK2788
ATOM	2697	CD	PRO	357	7.183	35.366	40.438	1.00 33.26	1DIK2789
MOTA	2698	N	LEU	358	2.562	36.252	39.649	1.00 40.53	10IR2790
ATOM	2699	CA	LEU	358	1.555	37.298	39.584	1.00 39.23	1DIK2791
ATOM	2700	C	LEU	358	1.075	37.682	40.975	1.00 40.76	1DIK2792
MOTA	2701	0	LEU	358	0.861	36.815	41.821	1.00 40.81	1DIK2793
MOTA	2702	CB	LEU	358	0.355	36.864	38.732	1.00 37.58	1DIX2794
ATOM ATOM	2703 2704	CG CD1	LEU	358	0.499	36.397	37.283	1.00 34.63	1DIR2795
ATOM	2705		LEU	358 358	-0.862	36.528	36.631	1.00 32.21	1DIK2796
ATOM	2706	N	SER	359	1.512	37.210	36.528	1.00 33.59	10IX2797
	2707			359		38.979	41.205		1DIK2798
ATOM ATOM	2708	CA	SER	359	0.432	39.461	42.494	1.00 40.29	1DIK2799
	2709	c	SER	359	-0.963	38.910	42.687	1.00 38.32	1DIK2800
ATOM ATOM	2710	O CB	SER	359	-1.763	38.923	41.758	1.00 38.66	101K2801
ATOM	2711	OG	SER	359	0.376	40.989	42.515	1.00 43.59 1.00 51.02	1DIK2802
					-0.234	41.445	43.720		1DIK2803
ATOM	2712 2713	N	THR	360 360	-1.254	38.432	43.889	1.00 37.92	1DIK2804
ATOM		CA	THR		-2.564	37.870	44.189	1.00 40.16	1DIK2805
ATOM ATOM	2714	ç	THR	360	-3.564	38.907	44.709	1.00 39.58	101K2806
	2715		THR	360 360	-4.736	38.589 36.709	44.952	1.00 38.55	1DIK2807
MOTA	2716	CB	THR	360 360	-2.425	36.709	45.206	1.00 42.37	101K2808
MOTA	2717		THR	360	-1.519	37.095	46.255	1.00 47.97	101K2809
ATOM	2718		THR	360	-1.877	35.462	44.515	1.00 40.43	1DIK2810
MOTA	2719	N	THR	361	-3.104	40.144	44.875	1.00 40.07	101K2811
ATOM	2720	CA	THR	361	-3.964	41.214	45.381	1.00 42.85	1DIK2812
MOTA	2721	C	THR	361	-4.164	42.376	44.414	1.00 44.11	1DIX2813
ATOM	2722	0	THR	361 ·	-5.183	43.053	44.469 46.728	1.00 44.52	1DIK2814
ATOM	2723	CB	THR	361	-3.432	41.787	46.728	1.00 42.66	1DIK2815
ATOM	2724	OGI		361	-1-993	41.834	46.720	1.00 42.42	1DIX2816
ATOM	2725	CGZ		361	-3.909	40.934	47.877	1.00 45.08	1DIX2817
ATOM	2726	X	THR	362	-3.201	42.595	43.524	1.00 45.47	1DIK2818
ATOM	2727	CA	THR	362	-3.272	. 43.703	42.582	1.00 45.00	101K2819

ATOM	2728	С	THR	362	-3.134	43.247	41.138	1.00 42.73	1DIK2820
MOTA	2729	ō	THR	362	-2.368	42.332	40.846	1.00 43.39	1DIK2821
ATOM	2730	CB	THR	362	-2.142	44.689	42.867	1.00 49.03	1DIK2822
MOTA	2731			362	-2.006	44.846	44.287	1.00 56.76	101K2823
MOTA	2732		THR	362	-2.434	46.036	42.227	1.00 50.37	1DIK2824
ATOM	2733 2734	N CA	VAL	363 363	-3.879 -3.860	43.901	40.249	1.00 40.72 1.00 37.30	1DIK2825
MOTA	2735	c	VAL	363	-2.524	43.616 44.081	38.815 38.243	1.00 39.07	1DIK2826 1DIK2827
ATOM	2736	ŏ	VAL	363	-2.045	45.160	38.603	1.00 40.33	1DIK2828
ATOM	2737	ĊВ	VAL	363	-4.982	44.402	38.070	1.00 34.35	1DIK2829
MOTA	2738		VAL	363	-4.928	44.143	36.562	1.00 33.50	1DIK2830
MOTA	2739		VAL	363	-6.332	44.034	38.625	1.00 32.51	1DIK2831
MOTA	2740	N	GLU	364	-1.934	43.269	37.366	1.00 38.65	1DIK2832
ATOM	2741	CA	GLU	364	-0.676	43.602	36.694	1.00 40.15	1DIK2833
MOTA	2742 2743	C	GLU	364 364	-0.961 -1.619	43.550	35.199	1.00 41.61	1DIK2834
ATOM ATOM	2744	СВ	GLU	364	0.421	42.628 42.606	34.714 37.040	1.00 42.19 1.00 39.16	1DIK2835 1DIK2836
MOTA	2745	CG	GLU	364	0.621	42.449	38.515	1.00 45.46	1DIX2837
ATOM	2746	CD	GLU	364	1.956	41.863	38.842	1.00 46.24	1DIK2838
MOTA	2747	OE1		364	2.953	42.609	38.751	1.00 54.58	1DIK2839
MOTA	2748	OE 2		364	2.013	40.666	39.187	1.00 43.12	1DIK2840
MOTA	2749	N	ASN	365	-0.475	44.540	34.466	1.00 41.88	1DIK2841
ATOM	2750 2751	CA	ASN	365 365	-0.727	44.587	33.037	1.00 41.03 1.00 39.55	1DIK2842
MOTA MOTA	2752	C	ASN ASN	365	0.218 1.181	43.661 43.141	32.288 32.866	1.00 34.92	1DIK2843 1DIK2844
ATOM	2753	ČВ	ASN	365	-0.615	46.025	32.513	1.00 46.26	1DIK2845
ATOM	2754	CG	ASN	365	0.786	46.589	32.649	1.00 49.70	1DIK2846
MOTA	2755		ASN	365	1.646	46.361	31.798	1.00 52.55	1DIK2847
MOTA	2756	ND2		365	1.024	47.323	33.719	1.00 56.03	1DIK2848
ATOM	2757	N	ILE	366	-0.075	43.481	30.999	1.00 38.20	1DIK2849
MOTA	2758 2759	CA	ILE	366 366	0.671 2.160	42.603 42.944	30.103	1.00 36.15 1.00 37.55	1DIK2850
MOTA MOTA	2760	ŏ	ILE	366	2.947	42.107	29.939 29.489	1.00 38.87	1DIK2851 1DIK2852
ATOM	2761	CB	ILE	366	-0.068	42.489	28.713	1.00 33.38	1DIK2853
MOTA	2762	CG1	ILE	366	0.239	41.136	28.084	1.00 29.94	1DIK2854
MOTA	2763	CG2	ILE	366	0.273	43.652	27.786	1.00 24.77	1DIK2855
ATOM	2764		ILE	366	-0.332	39.987	28.874	1.00 22.62	1DIK2856
MOTA	2765	N	THR	367	2.542	44.165	30.302	1.00 37.95	1DIK2857
MOTA MOTA	2766 2767	CA C	THR	367 367	3.944 4.654	44.592 44.030	30.243 31.486	1.00 40.36 1.00 40.59	1DIK2858 1DIK2859
MOTA	2768	ŏ	THR	367	5.775	43.512	31.406	1.00 40.36	101K2860
MOTA	2769	ĊВ	THR	367	4.058	46.149	30.248	1.00 41.59	1DIK2861
ATOM	2770	0G1		367	3.625	46.663	28.983	1.00 38.58	1DIK2862
MOTA	2771	CG2		367	5.488	46.602	30.535	1.00 43.44	1DIK2863
MOTA	2772	N	GLN	368	3.985	44.135	32.630	1.00 39.60	1DIK2864
MOTA	2773	CA	GLN	368	4.532	43.647	33.880	1.00 42.39	1DIK2865
MOTA MOTA	2774 2775	C	GLN	368 368	4.656 5.613	42.133 41.598	33.876 34.438	1.00 43.99 1.00 47.07	1DIK2866 1DIK2867
MOTA	2776	СВ	GLN	368	3.650	44.055	35.050	1.00 46.02	1DIK2868
ATOM	2777	CG	GLN	368	3.575	45.543	35.313	1.00 52.12	1D1K2869
MOTA	2778	CD	GLN	368	2.605	45.854	36.439	1.00 55.80	1DIK2870
ATOM	2779	OE 1	GLN	368	1.553	46.460	36.223	1.00 53.21	1DIX2871
MOTA	2780	NE2	GLN	368	2.953	45.432	37.649	1.00 58.79	1DIK2872
MOTA	2781	N	THR	369	3.691	41.447	33.250	1.00 42.31	1DIK2873
MOTA MOTA	2782 2783	CA	THR	369 369	3.691 4.457	39.980 39.399	33.195 32.018	1.00 37.86 1.00 35.95	1DIK2874 1DIK2875
ATOM	2784	ŏ	THR	369	4.415	38.186	31.776	1.00 32.63	1DIX2876
MOTA	2785	СB	THR	369	2.273	39.404	33.156	1.00 37.12	1DIK2877
ATOM	2786	OG1	THR	369	1.626	39.815	31.940	1.00 40.70	1DIX2878
MOTA	2787	CG2	THR	369	1.475	39.871	34.368	1.00 28.31	10IK2879
MOTA	2788	И	ASP	370	5.149	40.269	31.291	1.00 33.39	10IK2880
MOTA MOTA	2789	CA	ASP	370 370	5.954	39.864	30.153	1.00 32.87	1DIK2881
ATOM	2790 2791	0	ASP ASP	370	5.170 5.60B	39.043 37.979	29.104 28.656	1.00 31.05 1.00 31.02	1DIK2882 1DIK2883
MOTA	2792	СВ	ASP	370	7.191	39.099	30.655	1.00 35.44	1DIK2884
MOTA	2793	CG	ASP	370	8.319	39.065	29.629	1.00 40.37	1DIK2885
MOTA	2794	OD1	ASP	370	8.469	40.065	28.893	1.00 35.88	10IK2886
MOTA	2795		ASP	370	9.052	38.043	29.558	1.00 39.79	1DIK2887
ATOM	2796	N	GLY	371	4.003	39.548	28.721	1.00 29.15	101K288B
MOTA	2797 2798	CA	GLY	371 371	3.203 2.322	38.883	27.717	1.00 26.42 1.00 29.16	1DIK2889
MOTA MOTA	2798	C	GLY	371	1.686	37.745 37.105	28.178 27.350	1.00 29.16	10IK2890 10IK2891
ATOM	2800	N	PHE	372	2.260	37.470	29.475	1.00 29.53	1DIK2892
MOTA	2801	CA	PHE	372	1.397	36.390	29.921	1.00 26.79	10IK2893
ATOM	2802	C	PHE	372	0.035	36.824	30.426	1.00 28.06	1DIK2894
MOTA	2803	0	PHE	372	-0.065	37.740	31.243	1.00 32.94	1DIK2895
ATOM	2804	CB	PHE	372	2.038	35.542	31.025	1.00 23.34	1DIK2896
ATOM	2805	CG	PHE	372	1.130	34.436	31.508	1.00 24.56	1DIK2897
MOTA	2806 2807		PHE	372 372	0.994 0.355	33.257	30.772	1.00 22.68	1DIK2898
ATOM ATOM	2808		PHE	372	0.095	34.601 32.268	32.648 31.161	1.00 22.77 1.00 23.69	101K2899 1D1K2900
ATOM	2809		PHE	372	-0.553	33.614	33.048	1.00 26.64	1DIK2901
ATOM	2810	cz	PHE	372	-0.684	32.447	32.303	1.00 24.28	1DIK2902
ATOM	2811	N	SER	373	-1.006	36.149	29.941	1.00 27.69	1DIK2903
ATOM	2612	CA	SER	373	-2.394	36.361	30.377	1.00 24.96	1D1K2904

MOTA	2813	C	SER	373	-3.191	35.201	29.772	1.00 25.82	1DIK2905
MOTA	2814	0	SER	373	-2.776	34.638	28.753	1.00 26.67	
MOTA	2815	CB	SER	373					1DIK2906
					-2.945	37.716	29.914	1.00 20.86	1DIK2907
ATOM	2816	OG	SER	373	-3.520	37.661	28.620	1.00 26.28	1DIK2908
ATOM	2817	N	SER	374	-4.310	34.820	30.378	1.00 23.66	1DIK2909
ATOM	2818	CA	SER	374	-5.092	33.728	29.816	1.00 23.58	101K2910
ATOM	2819	C	SER	374	-5.576	34.063	28.418		
								1.00 21.38	1DIK2911
MOTA	2820	0_	SER	374	-5.596	33.201	27.552	1.00 24.01	1DIK2912
MOTA	2821	СВ	SER	374	-6.295	33.404	30.688	1.00 24.78	1DIK2913
ATOM	2822	OG	SER	374	-5.868	32.729	31.846	1.00 36.24	1DIK2914
ATOM	2823	N	ALA	375	-5.965	35.316	28.209	1.00 19.17	1DIK2915
ATOM	2824	CA	ALA	375		35.310	20.209	1.00 19.17	
					-6.462	35.774	26.919	1.00 18.77	1DIK2916
MOTA	2825	Ç	ALA	375	-5.377	35.768	25.839	1.00 19.10	10IK2917
MOTA	2826	0	ALA	375	-5.674	35.603	24.662	1.00 17.13	1DIK2918
MOTA	2827	CB	ALA	375	-7.066	37.176	27.060	1.00 17.12	1DIK2919
ATOM	2828	N	TRP	376	-4.124	35.948	26.241	1.00 18.21	1DIK2920
ATOM	2829	CA	TRP	376	-3.028	35.956	25.285	1.00 20.78	
MOTA	2830	č	TRP	376					1D1K2921
					-2.419	34.585	25.036	1.00 22.76	1DIK2922
ATOM	2831	0	TRP	376	-1.724	34.391	24.032	1.00 24.41	1DIK2923
ATOM	2832	CB	TRP	376	-1.922	36.932	25.720	1.00 20.50	1DIK2924
ATOM	2833	CG	TRP	376	-2.236	38.359	25.406	1.00 21.91	1DIK2925
MOTA	2834	CD1	TRP	376	-3.465	38.941	25.432	1.00 21.75	1DIK2926
ATOM	2835		TRP	376	-1.309				
						39.389	25.017		1DIK2927
ATOM	2836	NE1		376	-3.36B	40.265	25.085	1.00 23.80	1DIK2928
ATOM	2837	CE2	TRP	376	-2.060	40.572	24.824	1.00 24.79	1DIK2929
MOTA	2838	CE3	TRP	376	0.082	39.429	24.814	1.00 26.46	1DIK2930
MOTA	2839	CZ2	TRP	376	-1.468	41.794	24.435	1.00 25.72	1DIK2931
ATOM	2840	CZ3	TRP	376	0.676	40.649	24.425	1.00 24.82	1DIK2932
ATOM	2841	CH2		376					
					-0.106	41.812	24.242	1.00 24.72	1DIK2933
MOTA	2842	N	THR	377	-2.670	33.631	25.931	1.00 23.05	1DIK2934
MOTA	2843	CA	THR	377	-2.105	32.296	25.770	1.00 20.73	1DIK2935
ATOM	2844	C	THR	377	-3.128	31.212	25.438	1.00 21.78	1DIK2936
MOTA	2845	0	THR	377	-2.917	30.422	24.499	1.00 22.28	1DIK2937
ATOM	2846	CB	THR	377	-1.282			1.00 21.05	
ATOM	2847	OGI	THR	377		31.891	27.015		1DIX2938
					-2.125	31.885	28.181	1.00 20.07	1DIK2939
ATOM	2848	CG2		377	-0.122	32.871	27.215	1.00 17.56	1DIK2940
ATOM	2849	N	VAL	378	-4.232	31.177	26.187	1.00 19.66	1DIK2941
MOTA	2850	CA	VAL	378	-5.266	30.173	25.960	1.00 17.69	1DIK2942
ATOM	2851	С	VAL	378	-6.712	30.611	25.663	1.00 19.05	1DIK2943
MOTA	2852	0	VAL	378	-7.657	30.160	26.323	1.00 18.97	1DIK2944
ATOM	2853	CB	VAL	378	-5.290	29.124	27.103	1.00 19.46	
		CG1	VAL	378					1DIK2945
MOTA	2854				-4.018	28.291	27.061	1.00 16.35	1DIK2946
MOTA	2855		VAL	378	-5.461	29.B11	28.459	1.00 17.47	1DIK2947
MOTA	2856	N	PRO	379	-6.909	31.510	24.681	1.00 19.03	1DIK2948
MOTA	2857	ÇA	PRO	379	-8.300	31.878	24.405	1.00 17.80	1DIK2949
ATOM	2858	C	PRO	379	-8.910	30.654	23.696	1.00 19.39	1DIK2950
ATOM	`2859	0	PRO	379	-8.215	29.655	23.472	1.00 21.31	1DIK2951
ATOM	2860	CB	PRO	379	-8.149	33.045	23.438	1.00 16.10	1DIK2952
	2861	ČĞ	PRO					1.00 10.10	
ATOM				379	-6.877	32.691	22.677	1.00 17.21	1DIX2953
MOTA	2862	CD	PRO	379	-5.979	32.249	23.798	1.00 19.06	1DIK2954
MOTA	2863	N	PHE	380	-10.188	30.704	23.344	1.00 18.52	1DIX2955
MOTA	2864	CA	PHE	380	-10.784	29.588	22.60B	1.00 18.85	101K2956
ATOM	2865	С	PHE	380	-10.052	29.506	21.263	1.00 21.10	101K2957
ATOM	2866	0	PHE	380	-9.733	30.535	20.669	1.00 24.26	1DIX2958
ATOM	2867	ČВ	PHE	380	-12.260				
						29.843	22.329		1DIR2959
MOTA	2868	CG.	PHE	380	-13.150	29.637	23.509	1.00 20.97	1DIK2960
MOTA	2869		PHE	380	-13.089	28.461	24.247	1.00 18.51	1DIK2961
MOTA	2870			380	-14.084	30.615	23.868	1.00 22.13	1DIK2962
MOTA	2871	CEl	PHE	380	-13.945	28.252	25.327	1.00 23.16	1DIK2963
MOTA	2872	CEZ	PHE	380	-14.942	30.419	24.941	1.00 20.92	1DIK2964
MOTA	2873	CZ	PHE	380	-14.874	29.229	25.677	1.00 18.80	1DIX2965
ATOM	2874	N	ALA	381	-9.790	28.296	20.785	1.00 19.83	1DIX2966
ATOM	2875	ČA	ALA	381	-9.106				
						28.103	19.514	1.00 17.83	1DIK2967
MOTA	2876	c	ALA	381	-7.703	28.731	19.476	1.00 21.42	1DIX2968
MOTA	2877	0_	ALA	381	-7.225	29.148	18.414	1.00 23.62	1DIK2969
MOTA	2878	CB	ALA	381	-9.968	28.641	18.369	1.00 16.06	1DIK2970
MOTA	2879	N	SER	382	-7.035	28.809	20.622	1.00 16.01	1DIK2971
HOTA	2880	CA	SER	382	-5.699	29.359	20.625	1.00 16.41	1DIK2972
ATOM	2881	c	SER	382	-4.814	28.403	19.850	1.00 16.99	1DIK2973
		ŏ	SER						101K2974
HOTA	2882			382	-5.165	27.240	19.674	1.00 21.80	
MOTA	2883	CB	SER	382	-5.170	29.462	22.046	1.00 18.69	1DIK2975
ATOM	2884	OG	SER	382	-5.083	28.174	22.612	1.00 19.41	1DIK2976
HOTA	2885	N	ARG	383 😁	-3.666	28.882	19.383	1.00 19.86	1DIK2977
MOTA	2886	CA	ARG	383	-2.724	28.025	18.678	1.00 16.82	1DIK2978
MOTA	2887	Ċ	ARG	383	-1.299	28.454	18.979	1.00 19.46	1DIK2979
ATOM	2888	ō	ARG	383	-1.000			1.00 22.02	1DIK2980
	2889				-1.000	29.648	19.103		
ATOM		CB	ARG	383	-2.971	28.002	17.153	1.00 17.09	1DIK2981
	2890	CG	ARG	383	-2.591	29.257	16.352	1.00 17.29	1DIK2982
ATOM	2891	CD	ARG	383	-3.451	30.487	16.688	1.00 16.60	1DIX2983
MOTA	2892	NE	ARG	383	-4.896	30.223	16.669	1.00 15.07	1DIX2984
ATOM	2893	CZ	ARG	383	-5.716	30.480	15.645	1.00 14.92	10IK2985
ATOM	2894	NHI		383	-5.272	31.002	14 509	1.00 8.26	1DIK2986
ATOM	2895	NH2		383	-7.005		14.508 15.757	1.00 12.00	1DIK2987
ATOM	2896	N	LEU	384		30.209	10.131	1 00 20 14	
					-0.432	27.456	19.113	1.00 20.14	101K2988
ATOM	2897	CA	LEU	384	0.982	27.640	19.361	1.00 15.15	1DIK2989

MOTA	2898	Ç	LEU	384	1.632	26.976	18.156	1.00 17.51	1DIK2990
ATOM	2899	Ó	LEU	384	1.239	25.859	17.776	1.00 17.66	1DIK2991
	2900								
ATOM		СВ	LEU	384	1.384	26.904	20.641	1.00 14.47	1DIK2992
ATOM	2901	CG	LEU	384	2.834	26.416	20.797	1.00 23.97	1DIK2993
MOTA	2902	CD1	LEU	384	3.761	27.555	21.205	1.00 22.30	1DIK2994
	2903	CD2		384	2.880			1.00 26.10	
ATOM						25.312	21.859		1DIK2995
ATOM	2904	N	TYR	385	2.601	27.658	17.546	1.00 17.61	1DIK2996
MOTA	2905	CA	TYR	385	3.336	27.110	16.402	1.00 14.96	1DIK2997
						26.000			
ATOM	2906	C	TYR	385	4.794	26.962	16.803	1.00 17.08	1DIK2998
ATOM	2907	0	TYR	385	5.379	27.860	17.428	1.00 15.24	1DIK2999
MOTA	2908	CB	TYR	385	3.341	28.047	15.186	1.00 12.27	1DIK3000
				385		28.338			
ATOM	2909	CG	TYR		2.021		14.532	1.00 14.64	1DIK3001
MOTA	2910	CD1	TYR	385	1.004	27.383	14.479	1.00 15.16	1DIK3002
ATOM	2911	CD2	TYR	385	1.795	29.580	13.942	1.00 17.04	1DIK3003
ATOM	2912	CEL	TYR	385	-0.209	27.657			
					-0.209	27.031	13.854	1.00 16.98	1DIK3004
MOTA	2913	CE2	TYR	385	0.584	29.870	13.309	1.00 18.46	1DIK3005
ATOM	2914	C2	TYR	385	-0.418	28.910	13.265	1.00 21.91	1DIK3006
MOTA	2915	OH	TYR	385	-1.620	29.216	12.637	1.00 13.55	1DIK3007
						27.220			
MOTA	2916	N	VAL	386	5.381	25.829	16.448	1.00 18.39	1DIK3008
ATOM	2917	CA	VAL	386	6.793	25.606	16.681	1.00 16.56	1DIK3009
ATOM	2918	С	VAL	386	7.285	25.311	15.279	1.00 17.90	1DIK3010
ATOM	2919	0	VAL	386	6.893	24.298	14.680	1.00 20.76	1DIK3011
ATOM	2920	CB	VAL	386	7.067	24.404	17.577	1.00 16.14	1DIK3012
MOTA	2921	CG1	VAL	386	8.572	24.270	17.787	1.00 6.88	1DIX3013
	2922								
MOTA	2722	CG2	VAL	386	6.346	24.565	18.910	1.00 15.11	1DIK3014
MOTA	2923	И	GLU	387	8.116	26.198	14.745	1.00 17.38	1DIX3015
MOTA	2924	CA	GLU	387	8.656	26.029	13.400	1.00 19.62	1DIK3016
	2925		GLU	387			13 407		
MOTA		c			10.169	25.935	13.407	1.00 19.53	1DIK3017
MOTA	2926	0	GLU	387	10.834	26.508	14.269	1.00 21.49	1DIK3018
MOTA	2927	CB	GLU	387	8.211	27.185	12.488	1.00 19.65	1DIK3019
ATOM	2928	CG	GLU	387	8.456	28.572	13.064	1.00 24.89	1DIK3020
MOTA	2929	CD	GLU	387	7.839	29.707	12.237	1.00 25.32	1DIK3021
ATOM	2930	OEl	GLU	387	6.675	29.590	11.802	1.00 18.28	1DIK3022
ATOM	2931		GLU	387	8.531	30.726	12.030	1.00 24.15	1DIK3023
MOTA	2932	N	MET	388	10.708	25.196	12.448	1.00 22.89	1DIK3024
ATOM	2933	CA	MET	388	12.148	25.047	12.306	1.00 24.50	1DIK3025
ATOM	2934	С	MET	388	12.420	25.506	10.872	1.00 25.97	1DIK3026
						35 336	10.002		10183020
ATOM	2935	0	MET	388	11.629	25.226	9.962	1.00 24.86	1DIK3027
ATOM	2936	СВ	MET	388	12.564	23.596	12.542	1.00 24.86	1DIK3028
ATOM	2937	CG	MET	388	14.045	23.405	12.736 13.737	1.00 28.49	1DIK3029
	2938					23.405	12.733		
MOTA		SD	MET	388	14.420	21.945	13.131	1.00 32.00	1DIK3030
ATOM	2939	CE	MET	388	13.569	20.648	12.835	1.00 25.36	1DIK3031
MOTA	2940	N	MET	389	13.517	26.233	10.673	1.00 26.04	1DIK3032
ATOM	2941	CA	MET	389	13.863	26.749	0 351	1.00 27.38	
ATOM							9.351		1DIK3033
ATOM	2942	C	MET	389	15.354	26.673	9.063	1.00 31.05	1DIK3034
HOTA	2943	a	MET	389	16.186	26.532	9.970	1.00 28.80	1DIK3035
ATOM	2944	CB	MET	389	13.388	28.200	9.188	1.00 21.65	1DIK3036
					13.300				
ATOM	2945	CG	MET	389	13.986	29.170	10.190	1.00 20.31	1DIK3037
MOTA	2946	SD	MET	389	13.301	30.826	10.047	1.00 27.29	1DIK3038
ATOM	2947	CE	MET	389	11.760	30.668	10.980	1.00 23.61	10IK3039
								1.00 23.01	
MOTA	2948	N	GLN	390	15.683	26.752	7.782	1.00 33.50	1DIK3040
ATOM	2949	CA	GLN	390	17.064	26.722	7.352	1.00 39.30	1DIK3041
ATOM	2950	C	GLN	390	17.218	28.001	6.560	1.00 37.68	1DIK3042
ATOM	2951	0	GLN	390	16.399	28.306	5.687	1.00 38.67	1DIK3043
MOTA	2952	CB	GLN	390	17.336	25.488	6.493	1.00 42.00	1DIK3044
ATOM	2953	CG	GLN	390	18.614	24.779	6.890	1.00 53.74	1DIX3045
ATOM	2954	CD	GLN	390			6.364	1 00 63 83	
					18.668	23.361		1.00 63.83	1DIK3046
MOTA	2955	OE 1	GLN	390	18.355	23.105	5.191	1.00 68.11	1DIK3047
MOTA	2956	NE2	GLN	390	19.065	22.421	7.224	1.00 63.91	1DIK3048
ATOM	2957	N	CYS	391	18.250	28.767	6.876	1.00 40.00	1DIK3049
							6 100		
MOTA	2958	CA	CYS	391	18.462	30.027	6.186	1.00 45.20	1DIK3050
MOTA	2959	C	CYS	391	19.823	30.061	5.521	1.00 49.70	10IK3051
MOTA	2960	0	CYS	391	20.750	29.371	5.932	1.00 49.75	1DIK3052
ATOM	2961	СВ	CYS	391	18.301	31.213	7.149		1DIK3053
					10.301				
MOTA	2962	SG	CYS	391	16.773	31.195	8.142	1.00 30.19	1DIK3054
ATOM	2963	N	GLN	392	19.917	30.883	4.488	1.00 59.92	1DIK3055
ATOM	2964	CA	GLN	392	21.121	31.044	3.685	1.00 68.58	1DIK3056
					22.12.			1 00 31 03	
ATOM	2965	c	GLN	392	22.430	31.262	4.455	1.00 71.02	1DIX3057
MOTA	2966	0	GLN	392	23.442	30.618	4.166	1.00 72.41	1DIK3058
MOTA	2967	CB	GLN	392	20.883	32.199	2.724	1.00 73.43	10IK3059
				392	21.760				
MOTA	2968	CG	GLN			32.223	1.498	1.00 80.79	1DIX3060
ATOM	2969	CD	GLN	392	21.489	33.465	0.686	1.00 83.73	1DIK3061
MOTA	2970		GLN	392	20.888	34.420	1.193	1.00 85.73	1DIX3062
				392					
ATOM	2971		GLN		21.920	33.471	-0.571	1.00 84.40	1DIK3063
MOTA	297 <i>2</i>	N	ALA	393	22.408	32.169	5.425	1.00 72.05	1DIK3064
MOTA	2973	CA	ALA	393	23.604	32.467	6.207	1.00 74.09	1DIK3065
ATOM	2974	c	ALA	393	23.989	31.392	7.241	1.00 74.58	1DIK3066
MOTA	2975	0	ALA	393	25.159	31.020	7.345	1.00 74.91	1DIK3067
MOTA	2976	СВ	ALA	393	23.440	33.820	6.895	1.00 75.97	1DIK3068
ATOM	2977	N	GLU	394	23.007	30.905	7.998	1.00 73.28	101K3069
MOTA	2978	CA	GLU	394	23.229	29.902	9.041	1.00 72.21	1DIK3070
MOTA	2979	C	GLU	394	23.418	28.461	8.528	1.00 70.24	1DIK3071
MOTA	2980	0	GLU	394	22.973	28.131	7.437	1.00 72.41	1DIK3072
ATOM	2981	CB	GLU	394	22.055	29.955	10.018	1.00 74.31	1DIK3073
MOTA	2982	CG	GLU	394	22.266	29.170	11.307	1.00 B1.75	1DIX3074
					-2.200		*****		TO 1 W 2 0 1 4

MOTA	2983	CD	GLU	394	23.361	29.761	12.187	1.00 84.86	10772075
ATOM	2984		GLU	394	23.242	30.948	12.578	1.00 86.06	101K3075 101K3076
MOTA	2985	OE2	GLU	394	24.338	29.038	12.489	1.00 86.34	101K3077
MOTA	2986	N	GLN	395	24.077	27.608	9.314	1.00 67.62	1DIX3078
MOTA	2987	CA	GLN	395	24.296	26.203	8.924	1.00 67.27	1DIX3079
MOTA	2988	C	GLN	395	23.313	25.261	9.625	1.00 64.99	1DIX3080
ATOM	2989	a	GLN	395	22.818	24.294	9.034	1.00 65.93	1DIK3081
ATOM	2990	CB	GLN	395	25.704	25.752	9.288	1.00 70.58	1DIK3082
MOTA	2991	CG	GLN	395	26.799	26.627	8.760	1.00 80.49	1DIK3083
MOTA	2992	CD	GLN	395	28.085	26.437	9.542	1.00 86.58	1DIX3084
ATOM	2993		GLN	395	28.185	25.537	10.385	1.00 87.92	1DIK3085
MOTA	2994	NE 2		395	29.077	27.280	9.272	1.00 90.05	1DIK3086
ATOM	2995	N	GLU	396 .	23.051	25.546	10.900	1.00 59.17	1DIK3087
ATOM	2996	CA	GLU	396	22.127	24.760	11.707	1.00 52.1B	1DIK3088
MOTA MOTA	2997 2998	C	GLU	396	20.694	25.250	11.536	1.00 45.17	1DIK3089
MOTA	2999	СВ	GLU	396 396	20.450	26.432	11.232	1.00 42.88	1DIK3090
MOTA	3000	CG	GLU	396	22.442	24.917	13.192	1.00 58.64	1DIK3091
HOTA	3001	CD	GLU	396	23.637 23.588	24.200 24.204	13.749	1.00 65.48	1DIK3092
MOTA	3002		GLU	396	22.721	23.485	15.279	1.00 72.96	1DIK3093
MOTA	3003	OE2	GLU	396	24.402	24.925	15.849 15.908	1.00 75.18 1.00 73.08	1DIK3094
ATOM	3004	N	PRO	397	19.723	24.344	11.708	1.00 37.24	101K3095 1D1K3096
MOTA	3005	CA	PRO	397	18.346	24.817	11.572	1.00 33.03	1DIK3097
ATOM	3006	C	PRO	397	18.015	25.696	12.806	1.00 27.77	1DIK3098
ATOM	3007	0	PRO	397	18.547	25.491	13.912	1.00 23.86	1DIK3099
ATOM	3008	CB	PRO	397	17.537	23.515	11.499	1.00 30.60	1DIK3100
MOTA	3009	CG	PRO	397	18.343	22.572	12.325	1.00 34.10	1DIX3101
ATOM	3010	CD	PRO	397	19.779	22.897	11.975	1.00 33.21	1DIX3102
MOTA	3011	N	LEU	398	17.151	26.680	12.599	1.00 24.89	1DIX3103
MOTA	3012	CA	LEU	398	16.743	27.603	13.644	1.00 22.58	1DIK3104
MOTA	3013	c	LEU	398	15.287	27.333	14.072	1.00 23.54	1DIX3105
atom Atom	3014 3015	O CB	LEU LEU	398	14.420	27.074	13.239	1.00 23.76	1DIK3106
ATOM	3016	CG	LEU	398 398	16.904	29.033	13.129	1.00 19.29	101K3107
ATOM	3017	CDI	LEU	398	18.296	29.357	12.572	1.00 21.68	1DIK3108
ATOM	3018	CD2	LEU	398	18.210 19.252	30.505	11.590 13.695	1.00 21.80 1.00 17.36	1DIX3109
ATOM	3019	N	VAL	399	15.039	29.681 27.395			1DIK3110
ATOM	3020	CA	VAL	399	13.727	27.149	15.374 15.959	1.00 23.51 1.00 23.57	1DIK3111
ATOM	3021	c c	VAL	399	13.084	28.478	16.379	1.00 25.60	1DIK3112 1DIK3113
ATOM	3022	õ	VAL	399	13.767	29.398	16.832	1.00 28.79	101K3113
ATOM	3023	CB	VAL	399	13.864	26.226	17.220	1.00 23.92	101K3115
MOTA	3024	CG1	VAL	399	12.510	25.978	17.867	1.00 19.35	101K3116
ATOM	3025	CG2	VAL	399	14.525	24.906	16.844	1.00 19.06	1DIK3117
MOTA	3026	N	ARG	400	11.770	28.576	16.223	1.00 24.81	1DIK3118
ATOM	3027	CA	ARG	400	11.03B	28.576 29.766	16.612	1.00 20.32	1DIK3119
ATOM	3028	Ç	ARG	400	9.642	29.348	17.060	1.00 20.66	1DIK3120
MOTA	3029	0	ARG	400	9.065	28.407	16.511	1.00 21.08	1DIK3121
ATOM	3030	CB	ARG	400	10.950	30.754	15.457	1.00 21.26	10IK3122
ATOM ATOM	3031 3032	CD	ARG	400	10.227	32.002	15.867	1.00 24.84	1DIK3123
ATOM	3033	NE	ARG	400 400	10.446 9.769	33.098	14.903	1.00 22.49	1DIK3124
ATOM	3034	cz	ARG	400	9.536	32.864	13.643	1.00 24.64	1DIK3125
ATOM	3035	NHI	ARG	400	9.930	33.835 35.079	12.763 13.042	1.00 33.02 1.00 30.42	1DIK3126 1DIK3127
ATOM	3036	NH2	ARG	400	8.915	33.576	11.614	1.00 30.09	1DIK3128
MOTA	3037	N	VAL	401	9.109	30.044	18.058	1.00 19.00	1DIK3129
MOTA	3038	CA	VAL	401	7.795	29.757	18.606	1.00 18.61	1DIK3130
MOTA	3039	C	VAL	401	6.882	30.980	18.554	1.00 21.25	1DIK3131
MOTA	3040	0	VAL	401	7.260	32.059	19.003	1.00 23.23	1DIK3132
ATOM	3041	CB	VAL	401	7.908	29.318	20.087	1.00 20.03	1DIK3133
MOTA	3042	CG1	VAL	401	6.529	29.173	20.701	1.00 17.45	1DIK3134
ATOM	3043	CG2	VAL	401	8.673	28.006	20.195	1.00 16.44	1DIK3135
ATOM	3044	N	LEU	402	5.683	30.812	18.006	1.00 20.98	1DIX3136
ATOM	3045	CA	LEU	402	4.701	31.888	17.948	1.00 17.41	1DIK3137
ATOM	3046	c	LEU	402	3.540	31.418	18.804	1.00 19.37	1DIX3138
ATOM	3047	0	LEU	402	3.165	30.249	18.728	1.00 22.64	1DIK3139
ATOM ATOM	3048 3049	CB	LEU LEU	402 402	4.206	32.128	16.519	1.00 14.63	1DIK3140
MOTA	3050	CD1	LEU	402	5.213	32.709	15.523	1.00 17.85	1DIK3141
ATOM	3051	CDZ	LEU	402	6.046 4.464	31.608	14.893	1.00 12.36	1DIK3142
MOTA	3052	N	VAL	403	2.984	33.480 32.305	14.461 19.626	1.00 15.05	· 1DIK3143 1DIK3144
ATOM	3053	CA	VAL	403	1.831	31.962	20.472	1.00 18.78	1DIK3145
ATOM	3054	c ·	VAL	403	0.710	32.925	20.081	1.00 21.06	1DIK3146
ATOM	3055	ō	VAL	403	0.793	34.129	20.357	1.00 20.63	1DIK3147
ATOM	3056	ĊВ	VAL	403	2.150	32.111	21.993	1.00 17.73	1DIX3148
ATOM	3057		VAL	403	0.904	31.836	22.840	1.00 12.73	1DIK3149
ATOM	3058	CG2	VAL	403	3.266	31.146	22.388	1.00 16.54	1DIK3150
ATOM	3059	N	ASN	404	-0.327	31.146 32.397	19.429	1.00 18.48	1DIK3151
ATOM	3060	CA	ASN	404	-1.455	33.216	18.967	1.00 21.00	1DIK3152
MOTA	3061	C	ASN	404	-0.986	34.403	18.116	1.00 21.42	1DIK3153
MOTA	3062	0	ASN	404	-1.507	35.522	18.221	1.00 18.49	1DIK3154
HOTA	3063	CB	ASN	404	-2.323	33.679	20.142	1.00 17.93	1DIK3155
MOTA	3064	CG.	ASN	404	-3.007	32.525	20.825	1.00 16.64	1DIK3156
MOTA	3065		ASN	404	-3.675	31.726	20.177	1.00 18.50	1DIK3157
ATOM	3066		ASN	404	-2.841	32.421	22.132	1.00 13.25	1DIK3158
ATOM	3067	N	ASP	405	0.011	34.103	17.277	1.00 20.77	1DIK3159

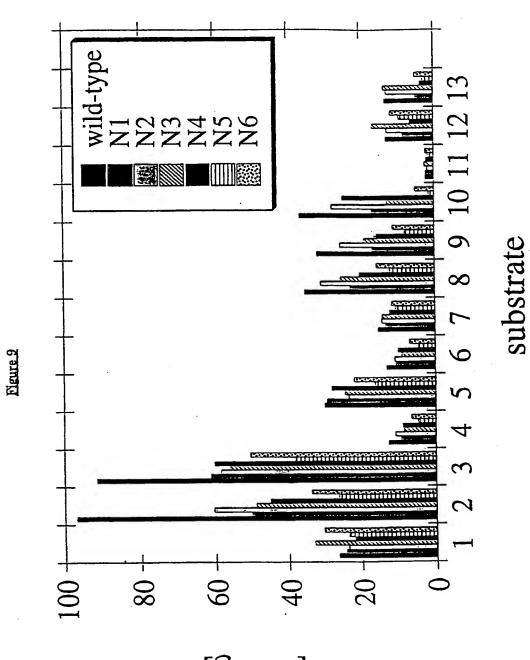
MOTA	3068	CA	ASP	405	0.657	35.003	16.317	1.00 21.55	1DIK3160
ATOM	3069	C	ASP	405	1.704	35.960	16.838	1.00 24.70	1DIK3161
MOTA	3070	0	ASP	405	2.244	36.765	16.078	1.00 27.69	1DIK3162
MOTA	3071	CB	ASP	405	-0.374	35.753	15.481	1.00 19.33	1DIK3163
MOTA	3072	CG	AS2	405	-1.249	34.821	14.694	1.00 21.06	1DIK3164
MOTA	3073	OD1		405	-0.824	33.668	14.469	1.00 22.07	1DIK3165
ATOM	3074	OD2		405	-2.359	35.231	14.303	1.00 23.53	1DIK3166
ATOM	3075	N	ARG	406	1.999	35.874	18.126	1.00 24.97	1DIK3167
MOTA	3076	CA	ARG	406	3.022	36.732	18.709	1.00 25.69	1DIK3168
MOTA	3077	С	ARG	406	4.317	35.917	18.738	1.00 24.24	1DIK3169
MOTA	3078	0	ARG	406	4.313	34.767	19.213	1.00 24.35	1DIK3170
ATOM	3079	CB	ARG	406	2.619	37.141	20.139	1.00 26.35	1DIK3171
MOTA	3080	CG	ARG	406	3.618	38.049	20.840	1.00 26.41	1DIK3172
MOTA	3081	CD	ARG	406	3.315	38.224	22.331	1.00 28.94	1DIK3173
ATOM	3082	NE	ARG	406	4.501	38.715	23.031	1.00 32.36	1DIK3174
ATOM	3083	CZ	ARG	406	5.099	38.092	24.047	1.00 36.19	1DIK3175
MOTA	3084	NH1	ARG	406	4.613	36.950	24.521	1.00 35.65	1DIK3176
MOTA	3085	NH2	ARG	406	6.188	38.618	24.601	1.00 38.62	1DIK3177
MOTA	3086	N	VAL	407	5.410	36.483	18.226	1.00 20.04	1DIK3178
ATOM	3087	CA	VAL	407	6.689	36.483 35.779	18.266 19.710	1.00 19.32	1DIK3179
MOTA	3088	C	VAL	407	7.183	35.895	19.710	1.00 22.20	1DIK3180
ATOM	3089	0	VAL	407	7.481 7.743	36.974	20.198	1.00 26.19	1DIK3181
MOTA	3090	CB	VAL	407	7.743	36.372	17.276	1.00 17.66	1DIK3182
MOTA	3091	CG1	VAL	407	9.143	35.815	17.606	1.00 12.58	1DIK3183
MOTA	3092	CG2	VAL	407	7.367	36.031	15.826	1.00 8.62	1DIK3184
MOTA	3093	N	VAL	408	7.245	34.767	20.391	1.00 27.04	1DIK3185
ATOM	3094	CA	VAL	408	7.682	34.718	21.779	1.00 30.49	1DIK3186
MOTA	3095	С	VAL	408	9.169	34.371	21.845	1.00 33.80	1DIK3187
ATOM	3096	0	VAL	408	9.576	33.273	21.468	1.00 36.38	1DIK3188
MOTA	3097	CB	VAL	408	6.869	33.645	22.575	1.00 27.31	1DIK3189
ATOM	3098	CG1		408	7.310	33.590	24.026	1.00 26.14	1DIK3190
MOTA	3099	CG2	VAL	408	5.392	33.950	22.493	1.00 25.33	1DIK3191
MOTA	3100	N	PRO	409	10.007	33.950 35.312	22.298	1.00 39.45	1DIK3192
MOTA	3101	CA	PRO	409	11.453	35.048	22.405	1.00 39.88	1DIK3193
MOTA	3102	C	PRO	409	11.740	33.855	23.348	1.00 38.92	1DIR3194
MOTA	3103	0	PRO	409	11.135	33.707	24.423	1.00 36.45	1DIK3195
MOTA	3104	CB	PRO	409	12.005	36.368	22.948	1.00 42.97	1DIK3196
MOTA	3105	CG	PRO	409	10.992	37.396	22.418	1.00 44.48	10IK3197
MOTA	3106	CD	PRO	409	9.688	36.692	22.702	1.00 40.36	1DIK3198
MOTA	3107	N	LEU	410	12.668	33.009	22.921	1.00 38.46	1DIK3199
MOTA	3108	CA	LEU	410	13.041	31.814	23.660	1.00 34.48	1DIK3200
MOTA	3109	С	LEU	410	13.959	32.117	24.846	1.00 33.51	1DIK3201
MOTA	3110	0	LEU	410	14.710	33.092	24.839	1.00 31.11	1DIK3202
MOTA	3111	CB	LEU	410	13.707	30.810	22.697	1.00 32.83	1DIK3203
MOTA	3112	CG	LEU	410	12.875	30.372	21.476	1.00 29.37	1DIK3204
MOTA	3113	CD1	LEU	410	13.725	29.543	20.528	1.00 28.62	1DIK3205
MOTA	3114		LEU	410	11.661	29.584 31.275	21.937	1.00 24.58	1DIK3206
ATOM	3115	N	HIS	411	13.888	31.275	25.867	1.00 32.47	1DIK3207
ATOM	3116	CA	HIS	411	14.725	31.432	27.041	1.00 34.54	1DIK3208
MOTA	3117	С	HIS	411	15.585	30.188	27.209	1.00 33.85	1DIK3209
ATOM	3118	0	HIS	411	15.168	29.088	26.854	1.00 36.81	1DIK3210
MOTA	3119	CB	HIS	411	13.865	31.652	28.288	1.00 40.62	1DIK3211
MOTA	3120	CG	HIS	411	13.249	33.012	28.352	1.00 43.65	1DIK3212
MOTA	3121	ND1	HIS	411	11.994	33.287	27.854	1.00 46.21	1DIK3213
MOTA	3122	CD2	HIS	411	13.731	34.185	28.822	1.00 43.54	1DIK3214
MOTA	3123	CEL	HIS	411	11.731	34.571	28.012	1.00 46.39	1DIK3215
MOTA	3124	NE2	HIS	411	12.771	35.138	28.598	1.00 43.29	1DIK3216
ATOM	3125	N	GLY	412	16.786	30.372	27.747	1.00 32.45	1DIK3217
ATOM	3126	CA	GLY	412	17.690	29.258	27.961	1.00 27.18	1DIK3218
MOTA	3127	С	GLY	412	18.642	29.036	26.807	1.00 28.45	1DIK3219
MOTA	3128	0	GLY	412	19.530	28.180	26.880	1.00 32.18	1DIK3220
MOTA	3129	N	CYS	413	18.470	29.797	25.734	1.00 25.33	1DIK3221
MOTA	3130	CA	CYS	413	19.334	29.669	24.570	1.00 24.44	1DIK3222
MOTA	3131	c	CYS	413	19.542	31.073	24.032	1.00 23.08	1DIK3223
MOTA	3132	0	CYS	413	18.723	31.967	24.278	1.00 23.15	1DIK3224
ATOM	3133	CB	CYS	413	18.691	28.751	23.511	1.00 26.97	1DIK3225
MOTA	3134	SG	CYS	413	17.010	29.217	22.959	1.00 26.06	1DIX3226
MOTA	3135	N	PRO	414	20.640	31.289	23.299	1.00 22.53	1DIK3227
MOTA	3136	CA	PRO	414	21.000	32.586	22.706	1.00 25.51	1DIK3228
MOTA	3137	С	PRO	414	20.086	32.989	21.542	1.00 26.43	1DIK3229
MOTA	3138	0	PRO	414	20.303 22.438	32.531	20.415	1.00 24.37	1DIK3230
MOTA	3139	CB	PRO	414			22.202	1.00 27.32	1DIK3231
MOTA	3140	CG	PRO	414	22.904	31.083	22.891	1.00 26.89	1DIK3232
MOTA	3141	CD	PRO	414	21.649	30.264	22.972	1.00 25.24	1DIK3233
MOTA	3142	N	VAL	415	19.080	33.829	21.801	1.00 24.39	1DIK3234
MOTA	3143	CA	VAL	415	18.180	34.258	20.732	1.00 23.17	1DIK3235
MOTA	3144	С	VAL	415	18.762	35.328	19.817	1.00 23.33	1DIK3236
MOTA	3145	0	VAL	415	19.498	36.213	20.262	1.00 23.01	10IK3237
MOTA	3146	CB	VAL	415	16.827	34.801	21.256	1.00 20.98	1DIK3238
MOTA	3147	CG1		415	15.937	33.675	21.666	1.00 22.55	1DIK3239
MOTA	3148	CGZ		415	17.051	35.763	22.391	1.00 26.59	1DIK3240
ATOM	3149	N	ASP	416	18.434	35.236	18.532	1.00 21.89	1DIK3241
MOTA	3150	CA	ASP	416	18.881	36.224	17.569	1.00 23.29	1DIK3242
ATOM	3151	Ċ	ASP	416	17.798		17.436	1.00 25.15	1DIK3243
ATOM	3152	0	ASP	416	16.739	37.209	18.070	1.00 23.71	1DIK3244

MOTA	3153	CB	ASP	416	19.265	35.579	16.207	1.00 22.64	1DIK3245
MOTA	3154	CG	ASP	416	18.085	34.947	15.445	1.00 25.90	1DIK3246
ATOH	3155	OD1		416	16.896	35.237	15.713	1.00 28.90	
ATOM	3156	ODZ		416					1DIK3247
					18.366	34.135	14.540	1.00 24.59	1DIK3248
MOTA	3157	N	ALA	417	18.062	38.327	16.619	1.00 25.89	1DIK3249
ATOM	3158	CA	ALA	417	17.137	39.443	16.411	1.00 26.04	1DIK3250
ATOM	3159	С	ALA	417	15.717	39.053	15.986	1.00 27.35	1DIK3251
MOTA	3160	0	ALA	417	14.779	39.837	16.165	1.00 28.16	1DIK3252
ATOM	3161	CB	ALA	417	17.738	40.443		1.00 22.45	
			LEU	418			15.403		1DIK3253
MOTA	3162	N			15.553	37.852	15.428	1.00 28.60	1DIK3254
MOTA	3163	CA	LEU	418	14.238	37.384	14.991	1.00 26.36	1DIK3255
MOTA	3164	C	LEU	418	13.552	36.391	15.952	1.00 26.54	1DIK3256
MOTA	3165	0	LEU	418	12.533	35.795	15.608	1.00 26.72	1DTK3257
ATOM	3166	CB	LEU	418	14.329	36.829	13.564	1.00 25.45	1DIK3258
MOTA	3157	CG	LEU	418	14.649	37.875	12.474	1.00 28.70	
ATOM			LEU						1DIK3259
	3168			418	14.842	37.187	11.139	1.00 27.85	1DIK3260
MOTA	3169	CD2		418	13.525	38.908	12.354	1.00 23.85	1DIK3261
MOTA	3170	N	GLY	419	14.118	36.234	17.154	1.00 27.13	10 IK3262
ATOM	3171	CA	CLY	419	13.556	35.364	18.182	1.00 22.28	1DIK3263
MOTA	3172	C	GLY	419	13.913	33.894	18.094	1.00 25.13	1DIK3264
MOTA	3173	0	GLY	419	13.347	33.077	18.827	1.00 29.64	
MOTA	3174	N	ARG	420			10.021		1DIK3265
					14.852	33.555	17.218	1.00 18.88	1DIK3266
MOTA	3175	CA	ARG	420	15.252	32.173	17.004	1.00 21.64	1DIK3267
ATOM	3176	C	ARG	420	16.483	31.695	17.768	1.00 23.83	1DIK3268
ATOM	3177	0	ARG	420	17.306	32.495	18.193	1.00 26.72	1DIK3269
MOTA	3178	CB	ARG	420	15.504	31.959	15.515	1.00 23.45	1DIK3270
MOTA	3179	CG	ARG	420	14.413	32.532	14.623	1.00 27.05	101K3271
ATOM	3180	CD	ARG	420	14.827	32.520	13.166	1.00 25.37	1DIK3272
ATOM	3181	NE	ARG	420	16.019	32.320			10183272
						33.333	12.915	1.00 30.86	1DIK3273
MOTA	3182	CZ	ARG	420	16.435	33.730	11.708	1.00 28.82	1DIK3274
MOTA	3183	NH1		420	15.775	33.407	10.599	1.00 25.15	1DIK3275
MOTA	3184			420	17.528	34.463	11.608	1.00 28.95	1DIK3276
ATOM	3185	N	CYS	421	16.590	30.377	17.927	1.00 24.78	10IK3277
MOTA	3186	CA	CYS	421 ·	17.726	29.704	18.570	1.00 22.57	1DIK3278
MOTA	3187	C	CYS	421	18.039	28.519	17.679	1.00 23.03	1DIK3279
MOTA	3188	ŏ	CYS						
				421	17.144	27.988	17.035	1.00 22.43	1DIK3280
MOTA	3189	CB	CYS	421	17.366	29.144	19.944	1.00 22.26	1DIK3281
MOTA	3190	SG	CYS	421	17.337	30.349	21.302	1.00 27.11	10IK32B2
MOTA	3191	N	THR	422	19.294	28.098	17.623	1.00 26.80	1DIR3283
MOTA	3192	CA	THR	422	19.624	26.935	16.816	1.00 26.97	1DIK3284
ATOM	3193	c	THR	422	18.879	25.795	17.511	1.00 30.20	1DIK3285
ATOM	3194	ŏ	THR	422	18.636	25.857	18.731	1.00 30.05	1DIK3286
				422			10.731		
MOTA	3195	CB	THR		21.146	26.649	16.799	1.00 25.67	1DIK3287
MOTA	3196		THR	422	21.615	26.400	18.133	1.00 25.43	1DIK3288
MOTA	3197	CG2	THR	422	21.895	27.827	16.200	1.00 23.71	1DIK3289
ATOM	3198	N	ARG	423	18.505	24.767	16.752 17.331	1.00 30.48	1DIK3290
MOTA	3199	CA	ARG	423	17.781	23.650	17.331	1.00 28.62	1DIK3291
ATOM	3200	c	ARG	423	18.528	23.048	18.518	1.00 29.61	1DIK3292
	3201	ŏ		423					
MOTA			ARG		17.934	22.791	19.567	1.00 29.29	1DIK3293
MOTA	3202	CB	ARG	423	17.536	22.573	16.281	1.00 27.71	1DIK3294
MOTA	3203	CG	ARG	423	16.711	21.420	16.820	1.00 30.71	1DIK3295
MOTA	3204	CD	ARG	423	16.689	20.273	15.857	1.00 31.47	1DIK3296
ATOM	3205	NE	ARG	423	18.046	19.852	15.553	1.00 33.67	1DIK3297
ATOM	3206	CZ	ARG	423	18.406	19.262	14.422	1.00 33.99	1DIK3298
ATOM	3207	NHI		423	17.510				1DIK3299
						19.012	13.476	1.00 35.49	
MOTA	3208	NH2	ARG	423	19.671	18.921	14.241	1.00 38.78	1DIK3300
ATOM	3209	N	ASP	424	19.830	22.838	18.351	1.00 29.32	1DIK3301
ATOM	3210	CA	ASP	424	20.654	22.238	19.393	1.00 32.19	1DIK3302
ATOM	3211	C	ASP	424	20.729	22.998	20.704	1.00 30.97	1DIK3303
ATOM	3212	0	ASP	424	20.614	22.391	21.772	1.00 35.15	1DIK3304
MOTA	3213	CB	ASP	424	22.057	21.954	18.858	1.00 37.79	1DIK3305
ATOM	3214	CG	ASP	424	22.087	20.758	17.900	1.00 49.74	1DIK3306
	3215	OD1		424			17.300	1 00 57 55	
ATOM					21.108	20.531	17.136	1.00 52.55	10IK3307
ATOM	3216	ODZ		424	23.101	20.034	17.911	1.00 52.75	1DIK3308
ATOM	3217	N	SER	425	20.919	24.311	20.653	1.00 28.34	1DIK3309
MOTA	3210	CA	SER	425	20.976	25.071	21.893	1.00 28.79	1DIK3310
MOTA	3219	С	SER	425	19.568	25.148	22.504	1.00 28.14	1DIK3311
MOTA	3220	0	SER	425	19.422	25.177	23.731	1.00 27.74	1DIK3312
ATOM	3221	СВ	SER	425	21.584	26.470	21.674	1.00 27.42	1DIK3313
	3222	OG		425		27 776			
MOTA			SER		20.849	27.235	20.742	1.00 31.04	1DIK3314
MOTA	3223	N	PHE	426	18.538	25.170	21.651	1.00 26.40	101K3315
MOTA	3224	CA	PHE	426	17.152	25.203	22.129	1.00 26.40	1DIK3316
ATOM	3225	C	PHE	426	16.839	23.931	22.941	1.00 26.61	1DIX3317
ATOM	3226	o	PHE	426	16.311	23.996	24.064	1.00 23.72	1DIX3318
ATOM	3227	ĊВ	PHE	426	16.149	25.327	20.961	1.00 24,80	1DIK3319
MOTA	3228	CG.	PHE	426	14.698	25.227	21.399	1.00 24.49	1DIK3320
ATOM	3229		PHE	426	14.123	26.225	22.185	1.00 23.07	1DIK3321
MOTA	3230		PHE	426	13.925	24.117	21.061	1.00 22.45	101K3322
MOTA	3231		PHE	426	12.809	26.112	22.632	1.00 20.13	1DIK3323
MOTA	3232		PHE	426	12.609	23.999	21.506	1.00 19.45	10IK3324
ATOM	3233	cz	PHE	426				1.00 20.49	10103355
					12.053	24.993	22.293		1DIK3325
MOTA	3234	N	VAL	427	17.161	22.780	22.354	1.00 27.03	1DIK3326
MOTA	3235	CA	VAL	427	16.948	21.491	22.996	1.00 27.17	10IK3327
ATOM	3236	C	VAL	427	17.788	21.444	24.267	1.00 29.37	10IK3328
MOTA	3237	o	VAL	427	17.327	21.011	25.323	1.00 32.09	101K3329

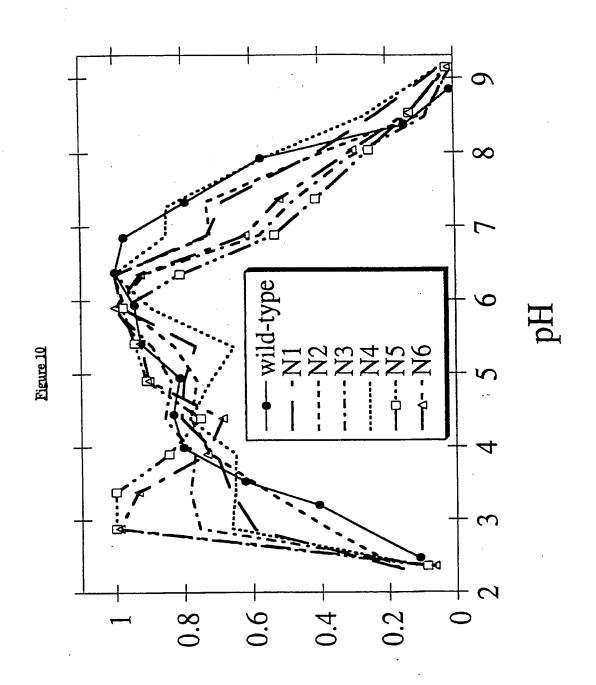
MOTA	3238	CB	VAL	427	17.348	20.346	22.047	1.00 28.39	1DIK3330
MOTA	3239	CG1	VAL	427	17.439	19.022	22.809	1.00 26.94	1DIK3331
ATOM	3240	CG2	VAL	427	16.326	20.256	20.901	1.00 24.93	101K3332
MOTA	3241	N	ARG	428	19.024	21.909	24.160	1.00 31.56	1DIK3333
MOTA	3242	CA	ARG	428	19.931	21.947	25.292	1.00 33.59 1.00 32.27	1DIK3334 1DIK3335
ATOM	3243	C	ARG ARG	428 428	19.331 19.489	22,797 22,472	26.426 27.598	1.00 31.56	1DIK3336
MOTA MOTA	3244 3245	СВ	ARG	428	21.257	22.518	24.819	1.00 40.23	1DIK3337
MOTA	3246	ČG	ARG	428	22.404	22.306	25.750	1.00 55.44	1DIK3338
ATOM	3247	CD	ARG	428	23.706	22.643	25.043	1.00 69.03	1DIX3339
ATOM	3248	NE	ARG	42B	24.726	23.025	26.013	1.00 83.02	1DIX3340
MOTA	3249	CZ	ARG	428	25.632	23.981	25.819	1.00 88.04	1DIK3341
MOTA	3250	NHI	ARG	428	25.659	24.656	24.674 26.777	1.00 89.88 1.00 89.48	1DIX3342 1DIX3343
MOTA	3251 3252	NH2 N	ARG GLY	428 429	26.516 18.634	24.260 23.875	26.068	1.00 89.48	1DIX3344
MOTA MOTA	3253	CA	GLY	429	18.011	24.754	27.049	1.00 29.88	1DIK3345
ATOM	3254	č	GLY	429	16.814	24.187	27.816	1.00 31.65	1DIK3346
ATOM	3255	ŏ	GLY	429	16.434	24.718	28.871	1.00 29.27	1DIK3347
ATOM	3256	N	LEU	430	16.208	23.115	27.308	1.00 32.28	1DIK3348
MOTA	3257	CA	LEU	430	15.057	22.495	27.977	1.00 31.40	1DIK3349
MOTA	3258	C.	LEU	430	15.546	21.456	29.009	1.00 30.50	1DIK3350
ATOM	3259	0_	LEU	430	15.093	20.307	29.033 26.930	1.00 30.10 1.00 27.85	1DIK3351 1DIK3352
MOTA MOTA	3260 3261	CB	LEU LEU	430 430	14.144 13.635	21.836	25.819	1.00 27.51	1DIK3353
MOTA	3262	CD1		430	12.980	22.755 21.956 23.751	24.702	1.00 21.48	1DIK3354
MOTA	3263	CDZ	LEU	430	12.672	23.751	26.420	1.00 21.75	1DIK3355
MOTA	3264	N	SER	431	16.468	21.869	29.869	1.00 29.03	1DIX3356
ATOM	3265	CA	SER	431	17.028	20.960	30.864	1.00 31.21 1.00 28.76	1DIX3357
ATOM	3266	C	SER	431	15.991	20.465	31.871	1.00 28.76	1DIK3358
MOTA	3267	0_	SER	431	16.037	19.308	32.290	1.00 29.64 1.00 31.70	1DIK3359 1DIK3360
ATOM ATOM	3268 3269	CB OG	SER SER	431 431	18.212 17.837	21.623 22.857	31.580 32.169	1.00 31.70 1.00 36.73	1DIK3361
ATOM	3270	N	PHE	432	15.059	21.334	32.254	1.00 25.33	1DIK3362
ATOM	3271	ĈA	PHE	432	14.016	20.969	33.207	1.00 26.36	1DIK3363
ATOM	3272	Ç.	PHE	432	13.170	19.796	32.681	1.00 30.38	1DIK3364
MOTA	3273	0	PHE	432	12.904	18.822	33.404	1.00 29.32	1DIK3365
MOTA	3274	CB	PHE	432	13.133	22.186	33.487	1.00 21.52 1.00 24.46	1DIK3366 1DIK3367
MOTA	3275	CG	PHE	432	11.908	21.885 21.567	34.315 35.670	1.00 24.46 1.00 22.91	1DIK3368
MOTA MOTA	3276 3277		PHE	432 432	12.022 10.636	21.941	33.739	1.00 19.38	1DIX3369
ATOM	3278	CEI		432	10.883	21.311	36.441	1.00 24.30	1DIK3370
MOTA	3279	CE 2	PHE	432	9.489	21.688	34.495	1.00 22.66	1DIK3371
ATOM	3280	CZ	PHE	432	9.606	21.372	35.846	1.00 26.15	1DIK3372
MOTA	3281	N	ALA	433	12.752 11.958	19.896	31.421	1.00 27.75	1DIK3373
MOTA	3282	CA	ALA	433	11.958	18.850	30.796	1.00 26.55	1DIK3374
ATOM	3283	C	ALA	433 433	12.789 12.350	17.577	30.597 30.974	1.00 25.17 1.00 28.47	1DIK3375 1DIK3376
MOTA MOTA	3284 3285	СB	ALA	433	11.411	16.492 19.336	29.460	1.00 23.17	10IK3377
ATOM	3286	N	ARG	434	13.982	17.710	30.018	1.00 23.09	1DIK3378
ATOM	3287	CA	ARG	434	14.849	16.557	29.754	1.00 24.40	1DIK3379
ATOM	3288	C	ARG	434	15.156	15.725	30.992	1.00 24.98	1DIX3380
ATOM	3289	0	ARG	434	15.416	14.525	30.889	1.00 25.10	1DIK3381
MOTA	3290	CB	ARG	434	16.163	16.991	29.087	1.00 22.29 1.00 27.82	1DIK3382 1DIK3383
MOTA	3291	CG	ARG	434 434	16.013 17.363	17.379 17.590	27.610 26.910	1.00 27.82 1.00 29.10	1DIK3384
MOTA MOTA	3292 3293	NE	ARG	434	18.090	18.741	27.446	1.00 36.82	1DIK3385
MOTA	3294	cz	ARG	434	19.087	18.664	28.332	1.00 39.13	1DIK3386
ATOM	3295	NH1		434	19.487	17.480	28.784	1.00 39.16	1DIK3387
MOTA	3296	NH2		434	19.688	19.770	28.766	1.00 30.93	1DIK3388
MOTA	3297	N	SER	435	15.123	16.367	32.157	1.00 26.13	1DIK3389
MOTA	3298	CA	SER	435	15.394	15.696	33.427	1.00 28.09 1.00 26.80	1DIK3390 1DIK3391
MOTA MOTA	3299 3300	C	SER SER	435 435	14.126 14.208	15.122 14.433	34.088 35.103	1.00 27.78	101K3392
ATOM	3301	СВ	SER	435	16.112	16.659	34.392	1.00 29.48	1DIK3393
ATOM	3302	OG.	SER	435	15.322	17.811	34.687	1.00 36.42	1DIK3394
ATOM	3303	N	GLY	436	12.960	15.407	33.515	1.00 26.30	1DIK3395
MOTA	3304	CA	GLY	436	11.719	14.894	34.068	1.00 24.08	10IX3396
MOTA	3305	Ç	GLY	436	11.003	15.827	35.025	1.00 25.00	101K3397
ATOM	3306	0	GLY	436	10.114	15.383	35.763	1.00 25.04	1DIK3398
ATOM	3307	N CA	GLY	437 437	11.376 10.755	17.107 18.076	35.015 35.901	1.00 24.66 1.00 26.30	1DIK3399 1DIK3400
MOTA MOTA	3308 3309	CA	GLY		10.733	17.560	37.330	1.00 28.82	1DIK3401
ATOM	3310	ŏ	GLY	437	11.697	16.913	37.767	1.00 30.32	1DIK3402
ATOM	3311	N	ASP	438	9.666	17.839	38.058	1.00 29.95	1DIK3403
MOTA	3312	CA	ASP	438	9.516	17.374	39.438	1.00 31.82	1DIK3404
ATOM	3313	C	ASP	438	8.453	16.273	39.477	1.00 32.65	1DIK3405
ATOM	3314	0_	ASP	438	7.674	16.197	40.434	1.00 29.97 1.00 33.43	1DIK3406
ATOM	3315	CB	ASP	438	9.094	18.534	40.363	1.00 33.43	1DIK3407 1DIK3408
MOTA	3316 3317	CG	ASP ASP	438 438	10.174 11.372	19.610 19.271	40.499	1.00 43.62	101K3409
ATOM ATOM	3316		L ASP	438	9.834	20.806	40.563	1.00 40.73	1D1K3410
ATOM	3319	N	TRP	439	8.423	15.420	38.446	1.00 32.12	1DIK3411
ATOM	3320	CA	TRP	439	7.415	14.357	38.365	1.00 31.93	1DIX3412
MOTA	3321	C	TRP	439	7.429	13.410	39.571	1.00 35.50	1DIK3413
MOTA	3322	0	TRP	439	6.388	12.886	39.979	1.00 34.13	1DIK3414

ATOM	3323	CB	TRP	439	7.545	13.573	37.045	1.00 23	. 82	1DIX3415
MOTA	3324	CG	TRP	439	6.379	12.641	36.794	1.00 25		1DIK3416
MOTA	3325	CD1		439	6.331	11.304	37.067	1.00 22		
MOTA	3326	CD2		439	5.076					1DIK3417
	3327					12.989	36.279	1.00 25		1DIX3418
MOTA		NE 1	TRP	439	5.089	10.802	36.764	1.00 27		1DIX3419
ATOM	3328	CEZ		439	4.299	11.813	36.280	1.00 25		1DIK3420
ATOM	3329	CE3	TRP	439	4.494	14.179	35.819	1.00 25	-14	1DIK3421
MOTA	3330	CZ2	TRP	439	2.967	11.790	35.842	1.00 26	. 41	1DIK3422
MOTA	3331	CZ3	TRP	439	3.169	14.157	35.381	1.00 21	. 25	1DIK3423
MOTA	3332	CH2		439	2.424	12.970	35.398	1.00 27		1DIK3424
ATOM	3333	N	ALA	440	8.608	13.198				
ATOM	3334	ČA	ALA	440			40.147	1.00 39		1DIR3425
					8.740	12.325	41.304	1.00 40		1DIX3426
MOTA	3335	C	ALA	440	7.783	12.771	42.429	1.00 42		1DIK3427
MOTA	3336	0	ALA	440	7.072	11.948	43.026	1.00 44		1DIK3428
MOTA	3337	CB	ALA	440	10.173	12.341	41.776	1.00 36	.80	1DIK3429
ATOM	3338	N	GLU	441	7.758	14.077	42.689	1.00 41	.96	1DIK3430
ATOM	3339	CA	GLU	441	6.903	14.687	43.713	1.00 42	. 69	1DIK3431
ATOM	3340	С	GLU	441	5.397	14.402	43.529		.04	1DIK3432
MOTA	3341	0	GLU	441	4.575	14.766	44.373		.51	1DIK3433
MOTA	3342	CB	GLU	441	7.109	16.207	44.373 43.710		.22	1DIK3434
ATOM	3343	CG	GLU	441	8.554	16.671	43.787	1.00 56		
ATOM	3344	CD	GLU	441	9.184					1DIK3435
	3345		GLU		3.107	16.346	45.122	1.00 65		1DIK3436
ATOM				441	8.602	16.733	46.161	1.00 69		1DIK3437
ATOM"	3346	OE2		441	10.260	15.704	45.139	1.00 69		1DIK3438
ATOM	3347	N	CYS	442	5.034	13.765	42.426	1.00 39	.99	1DIK3439
ATOM	3348	CA	CYS	442	3.638	13.468	42.160	1.00 40	. 48	1DIK3440
MOTA	3349	С	CYS	442	3.068	12.411	43.073	1.00 43	.32	1DIK3441
MOTA	3350	0	CYS	442	1.859	12.405	43.337	1.00 43	. 60	1DIK3442
MOTA	3351	CB	CYS	442	3.452	12.982	40.715	1.00 39		1DIK3443
ATOM	3352	SG	CYS	442	3.541	14.265	39.429	1.00 32		1DIK3444
ATOM	3353	N	PHE	443	3.930	11.517				
		CA					43.546		.06	1DIR3445
ATOM	3354		PHE	443	3.479	10.403	44.372	1.00 50	.79	1DIK3446
ATOM	3355	C	PHE	443	3.941	10.416	45.813	1.00 55		1DIK3447
MOTA	3356	0	Phe	443	3.268	9.863	46.684	1.00 57	.52	1DIK3448
MOTA	3357	CB	PHE	443	3.882	9.111	43.681	1.00 45	.54	1DIK3449
MOTA	3358	CG	PHE	443	3.724	9.182	42.205		.83	1DIK3450
ATOM	3359	CD1	PHE	443	2.453	9.192	41.636		.41	1DIK3451
MOTA	3360		PHE	443	4.840	9.294	41.379		.74	1DIK3452
ATOM	3361		PHE	443	2.292	9.315	40.262		.31	1DIX3453
ATOM	3362		BHE	443	4.694	9.417	39.999		.78	1DIX3454
ATOM	3363	cz	PHE	443	3.416	9.428	20 441		.42	1DIK3455
		N					39.441			
MOTA MOTA	3364		ALA	444	5.089	11.039	46.060		.20	1DIX3456
	3365	CA	ALA	444	5.621	11.144	47.412		. 60	1DIK3457
MOTA	3366	Ç	ALA	444	4.893	12.333	48.043		.05	1DIK3458
MOTA	3367	0	ALA	444	3.938	12.089	48.817	1.00 68	.94	1DIK3459
MOTA	3368	CB	ALA	444	7.151	11.380	47.381	1.00 66	.83	1DIK3460
MOTA	3369	OXT	ALA	444	5.274	13.489	47.747	1.00 69	.24	1DIK3461
TER	3370		ALA	444						1DIK3462
HETATM	3371	0	HOH	1	5.314	11.951	16.327	1.00 10	.28	1DIX3463
HETATM		õ	HOH	Ž	-6.660	26.826	16.721	1.00 14		1DIK3464
HETATM		ŏ	нон	3	0.327	31.364	16.394	1.00 14		1DIK3465
				4						
HETATM		0	нон		-11.448	9.894	26.651		.14	1DIK3466
HETATM		0	HOH	5	-1.808	14.907	36.587		.18	1DIX3467
HETATM		0	HOH	6	-16.607	13.889	26.028		-50	101KJ468
HETATM		0	HOH	7	8.014	7.031	26.624		.90	1DIK3469
HETATM		0	HOH	8	2.890	16.506	29.187		.33	1DIK3470
HETATM	3379	0	HOH	9	-3.509	12.674	9.344	1.00 16	.84	1D1K3471
HETATM	3380	0	HOH	10	12.661	12.918	24.069	1.00 17	.03	1DIK3472
HETATM	3381	0	нон	11	0.759	15.125	16.187	1.00 18	.48	1DIK3473
HETATM	3382	0	нон	12	-4.619	39.381	32.613		.74	1DIK3474
HETATM	3383	0	нон	13	-9.462	31.056	14.118		.80	1DIK3475
HETATM		ŏ	нон	14	-5.677	35.681	21.397		.53	1DIK3476
HETATM		ŏ	нон	ĩš	-11.372	5.811	26.977		.29	1DIK3477
HETATM		ŏ	нон	16	1.644	9.234	20.239		.38	10IK3478
HETATM										
		0	нон	17	7.980	5.282	24.219		1.45	1DIK3479
HETATH		0	HOH	18	-2.840	6.618	26.553		. 48	1DIK3480
HETATM		0	HOH	19	10.194	6.545	20.888		.50	1DIX3481
HETATM		0	HOH	20	-10.932	8.587	24.215		2.02	1DIK3482
HETATM	3391	0	HOH	21	-3.698	27.479	12.828	1.00 22	2.24	101K34B3
HETATM	3392	0	HOH	22	-9.209	6.732	23.045	1.00 22	2.35	1DIK3484
HETATM		ŏ	нон	23	-11.R43	33.526		1.00 22	.95	1DIK3485
HETATM	3394	ō	нон	24	-11.843 -10.730	33.526 33.322	16.995 13.268	1.00 23	1.32	1DIR3486
HETATM		ŏ	HOH	25	-5.232	6.280	25 126		3.99	1DIK3487
HETATM							25.125	1.00 23	1 43	
		0	HOH	26	-2.692	31.651	13.662		1.43	1DIK3488
HETATM		0	HOH	27	9.007	7.301	10.872		1.65	1DIK3489
HETATM		0	HOH	28	4.550	15.458	32.235	1.00 24		1DIK3490
HETATM		o	HOH	29	0.579	35.238	22.968		1.95	1DIK3491
KETATM	3400	0	HOH	30	0.056	10.426	25.818	1.00 2	5.40	1DIK3492
HETATM	3401	0	HOH	31	2.362	9.432	24.562		5.19	1DIK3493
HETATH		ō	HOH	32	8.504	5.960	17.071		6.33	1DIK3494
HETATH		ŏ	нон	33	-3.535	16.451	2.757		6.46	1DIK3495
HETATM		ŏ	нон	34	1.506	9.018	33.598	1.00 2		101K3496
HETATH		ŏ	HOH	35	-18.820	19.116	20.350	1.00 2	7.18	1DIK3497
HETATH			нон	36					7 74	1DIK3498
		0			8.399	9.350	9.458		7.24	
HETATM	3407	0	HOH	37	-9.061	36.957	6.577	1.00 2	1.58.	1DIK3 499

HETATM	3408		нон	38 39		-12.921	16.340	9.063	1.00			1DIK3500
HETATM .	3410	0	нон	40		-12.574 -12.507	24.639 26.784	33.545	1.00	27.73 27.75		1DIK3501 1DIK3502
	3411 3412		нон	41 42		-7.187 10.571	31.641 32.202	12.393 19.033		27.85 28.02		101K3503 101K3504
HETATM	3413	0	нон	43 44		8.426	35.536	30.142 30.786	1.00	28.34		1DIK3505
	3414 3415	0	нон	45		-6.691 12.389	36.766 22.580	30.279	1.00	28.87 29.03		1DIK3506 1DIK3507
HETATM HETATM	3416 3417		нон	46 47		-16.222 -10.420	15.844 13.136	27.511 6.619		29.03 29.13		1DIK3508 1DIK3509
HETATM	341B	0	нон	48		6.987	21.974	38.216	1.00	29.26		1DIK3510
	3419 3420		HOH	49 50		-17.438 -22.489	17.382 30.175	24.990 17.758		29.33 29.51		1DIK3511 1DIK3512
HETATM	3421 3422		нон	51 52		-2.152 -10.794	40.434 11.992	32.506 11.258	1.00	29.67 29.84		1DIK3513 1DIK3514
HETATM	3423	0	нон	53		-5.062	39.959	28.886	1.00	29.89		1DIK3515
HETATM HETATM	3424 3425	0	нон	54 55		-19.008 14.324	30.051 12.475	23.934 22.179		29.97 29.97		101K3516 1D1K3517
HETATM	3426 3427	0	нон	56 57		-15.744 -2.017	47.285 21.298	28.530 33.876		29.97 30.51		1DIK3518 1DIK3519
HETATM	3428	0	HOH	58		-10.164	23.699	27.468	1.00	30.66		1DIK3520
	3429 3430	0	нон	59 60		21.068 15.633	30.466 26.247	19.064 25.288	1.00	30.86 31.46		101K3521 101K3522
	3431 3432	0	HOH	61 62		2.539 0.718	13.006 11.503	3.675 8.049		31.51 31.69		1DIK3523 1DIK3524
HETATM	3433	0	HOH	63		6.296	32.820	36.174	1.00	31.69		1DIK3525
HETATM HETATM		0	HOH	64 65		-6.588 2.321	42.450 35.791	32.884 25.121		31.91 32.04		1DIK3526 1DIK3527
HETATM	3436	0	HOH	66 67		-11.516 -25.724	36.087	6.335 29.618	1.00	32.59		1DIK3528 1DIK3529
HETATM HETATM	3438	0	HOH	68	٠	-18.133	25.284 26.391	31.970	1.00	32.62		1DIK3530
HETATM HETATM		0	HOH	69 70		-14.947 21.082	45.064 26.576	46.354 25.533		33.42		1DIX3531 1DIX3532
HETATM	3441	0	HOH	71 72		11.263	14.005	39.063	1.00	33.76 33.92		1DIX3533 1DIX3534
HETATM	3442 3443	0	нон	73		6.695 -5.225	36.561 27.878	26.464 -1.684	1.00	34.01		1DIK3535
	3444	0	нон	74 75		-0.802 -12.291	9.860 22.260	-0.093 29.152		34.16 34.19		1DIK3536 1DIK3537
HETATM	3446	0	HOH	76 77		9.096 14.838	28.265 41.703	3.852 18.071	1.00	35.19 35.41		1DIK3538 1DIK3539
HETATM HETATM	3448	0	HOH	78		7.786	14.132	5.764	1.00	35.54		1DIK3540
HETATM HETATM		0	нон	79 80		14.772 -6.978	24.028 43.656	31.196 22.677	1.00	35.79 35.90	•	1DIK3541 1DIK3542
HETATM	3451	Ó	HOH	81		-10.032	8.600	15.243	1.00	36.00		1DIK3543 1DIK3544
HETATM HETATM	3453	0	нон	82 83		24.248 -9.437	25.836 28.721	18.908 1.634	1.00	36.04 36.20		1DIK3545
HETATM HETATM		0	HOH	84 85		-2.779 -20.467	26.774 37.474	21.988 17.552	1.00	36.25 36.27		1DIK3546 1DIK3547
HETATM	3456	0	HOH	86		8.166	29.232	31.117	1.00	36.46		1DIK3548
HETATM HETATM		0	нон	87 88		-26.538 -2.580	28.576 22.992	41.161 47.692	1.00	36.47 36.48		1DIK3549 1DIK3550
HETATM HETATM	3459	0	нон	89 90		12.366 -21.790	14.284 30.576	9.003 46.190	1.00	36.58 36.67		101K3551
HETATM	3461	0	HOH	91		-15.282	25.935	33.446	1.00	36.75		1DIK3553
HETATM HETATM	3462 3463	0	нон	92 93		14.144 -1.689	14.560 11.245	25.959 32.455	1.00	36.89 36.99		101K3554 101K3555
HETATM HETATM		0	нон	94 95		-15.117 -14.135	10.15B 46.511	15.158 18.743	1.00	37.08		1DIK3556 1DIK3557
HETATM	3466	0	HOH	96		-4.814	10.202	6.231	1.00	37.24		101X3558
HETATM HETATM	3467 3468	0	НОН	97 98		7.946 -6.586	31.148 41.003	35.040 26.383	1.00	37.53 37.57		1DIK3559 1DIK3560
HETATM HETATM	3469 3470	0	HOH	99 100		-19.902 -18.028	18.883 40.102	33.687 50.829	1.00	37.74 37.89		1DIK3561 1DIK3562
HETATM	3471	0	HOH	101		-13.315	28.183	35.513	1.00	38.10		1DIK3563
HETATM	3472 3473	0	HOH	102 103		-28.008 0.486	45.248 39.943	30.179 46.308	1.00	38.86 39.11		1DIX3564 1DIX3565
HETATM HETATM	3474 3475	0	HOH	104 105		-2.576 -25.042	4.959 47.163	28.921 37.757	1.00	39.13 39.65		1DIK3566 1DIK3567
HETATM	3476	0	HOH	106		-13.645	35.978	48.302	1.00	40.20		1DIK3568
HETATM	3477 3478	0	нон	107 108		14.699 -8.278	38.630 44.086	20.218 42.473	1.00	40.52 41.00		1DIK3569 1DIK3570
HETATM HETATM	3479 3480	0	HOH	109 110		-5.494 9.842	11.036 15.499	32.617 12.296	1.00	42.26 43.26		1DIK3571 1DIK3572
HETATM	3481	0	HOH	111		-16.929	18.595	14.159	1.00	43.73		1DIK3573
HETATM HETATM		0	HOH	112 113		-2.958 -20.129	42.099 25.973	16.177 11.503		43.99 44.43		1DIK3574 1DIK3575
HETATM HETATM	3484	0	HOH	114 115		8.119 17.556	26.656	-2.650 8.367	1.00	44.66 45.27		101K3576 101K3577
HETATM	3486	S	504	201		18.476	35.041 17.347	10.473	1.00	98.34		1DIX3578
HETATM HETATM		01 02	S04	201 201		17.123 18.756	18.013 16.524	10.311 9.233	1.00	96.57 97.48		101K3579 101K3580
HETATM HETATM	3489	03 04	SO4 SO4	201 201		18.472 19.535	16.383	11.631 10.640	1.00	95.71 95.40		1DIK3581 1DIK3582
CONECT	3486	3490	3489	3488 3	487	13.333	10.422	40.040	1.00	,,,,,		1DIK3583
CONECT												1DIK3584 1DIK3585
CONECT	3489	3486										1DIK3586 1DIK3587
MASTER	3430	46	0	1	0	0	0 0	0 3488	1	5	34	101K3588
END												101K3589



specific activity
[U/mg]



relative activity [a.u.]

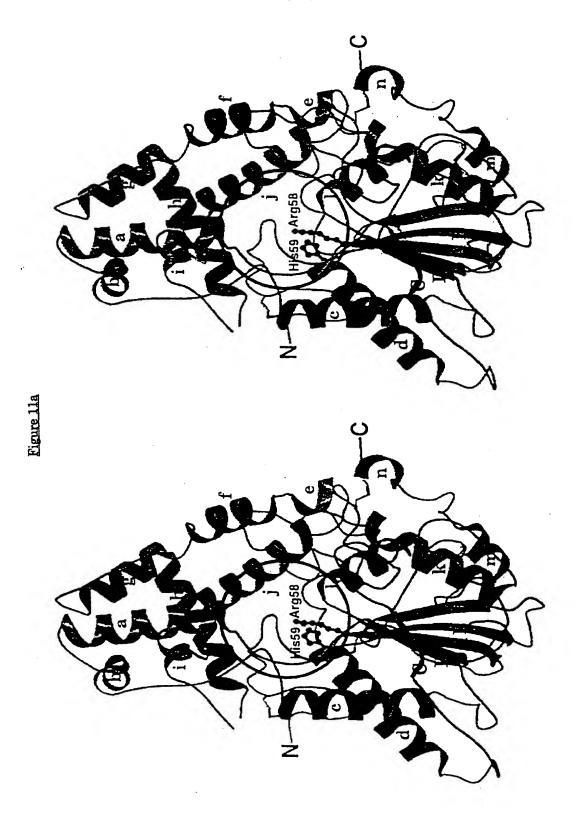
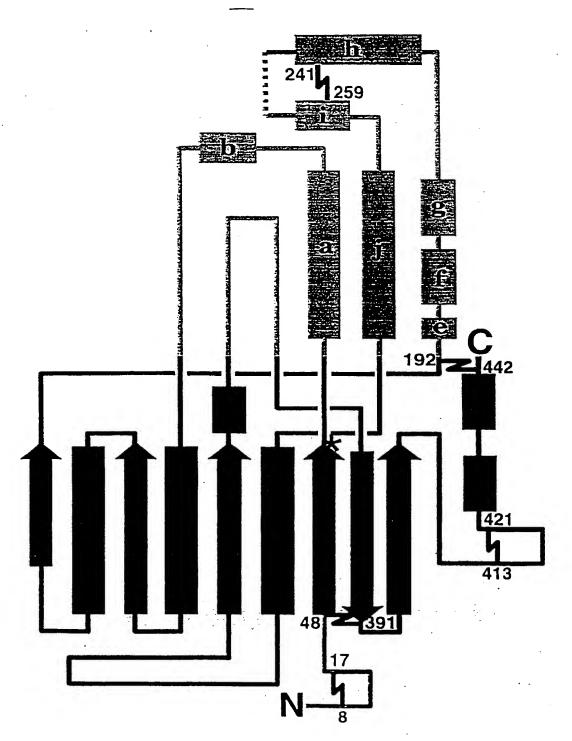
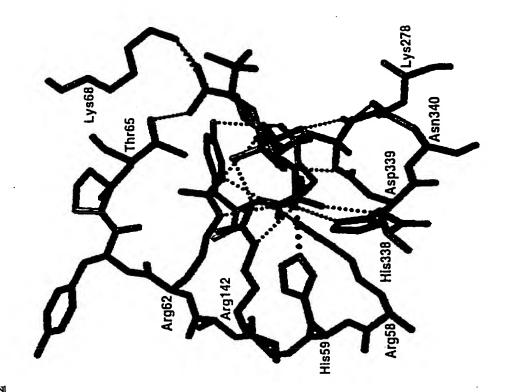
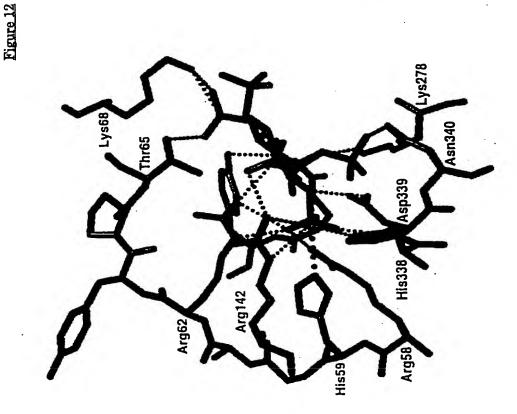


Figure 11b







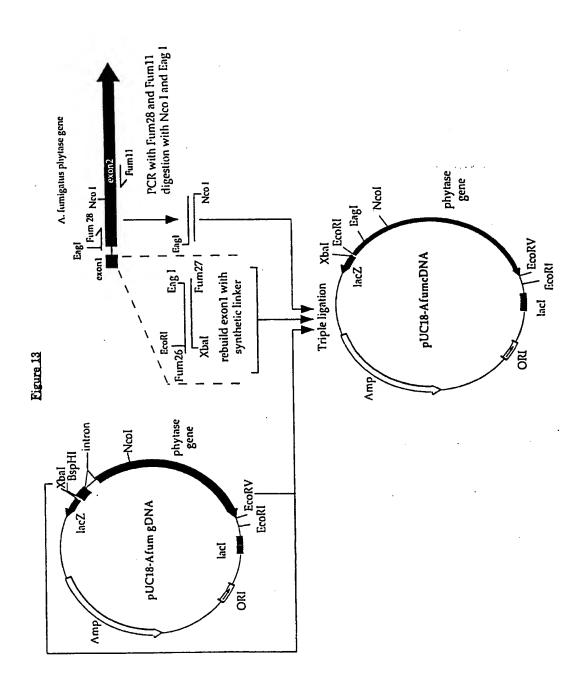


Figure 14a/1

Primer set A											
primer Q27L s	5′	CAT	CTA	TGG	GGC	C <u>T</u> G	TAC	TCG	CCA	TTC	3′
primer Q27L as	3′	GTA	GAT	ACC	CCG	G <u>A</u> C	ATG	AGC	GGT	AAG	5,
		н	L	W	G	L ₂₇	Y	s	P	F	
Primer set B											
primer Q274L s	5 <i>'</i>	TAC	AAC	TAC	CTT	CTG	TCC	TTG	GGC	AAG	3,
primer Q274L as	3,	ATG	TTG	ATG	GAA	GAC	AGG	AAC	CCG	TTC	5,
		Y	N	Y	Ĺ	L ₂₇₄	s	L	G	ĸ	
Primer set C											
primer G277D s	5′	CTT	CAG	TCC	TTG	G <u>A</u> C	AAG	TAC	TAC	GGC	3′
primer G277D as	3′	GAA	GTC	AGG	AAC	CIG	TTC	ATG	ATG	CCG	5′
		L	Q	s	L	D ₂₇₇	ĸ	Y	Y	G	
Primer set D											
primer G277D* s	5′	CTT	CTG	TCC	TTG	G <u>A</u> C	AAG	TAC	TAC	GGC	3′
primer G277D* as	3′	GAA	GAC	AGG	AAC	CIG	TTC	ATG	ATG	CCG	5′
		L	L ₂₇₄	s	L	D ₂₇₇	ĸ	Y	Y	G	÷
Primer set E											
primer N340S s	5,	TTT	TCA	CAC	GAC	AGC	AGC	ATG	GTT	TCC	3′
primer N340S as	3'	AAA	AGT	GTG	CTG	TCG	TCG	TAC	CAA	AGG	5,
	_	F	s	н	D	S ₃₄₀		м	v	I	

Figure 14a/2

Primer set F													
primer G277K s	5′	C C	rt C	AG TO	C T	rg <u>az</u>	AG A	AG T	AC T	AC GO	GC TI	AC	3,
primer G277K as	3′	G GZ	AA G	rc ac	G A	AC II	<u>rc</u> 17	rc a	rg a	rg co	CG AT	rG	5′
		L	Q	s	L	K	277 K	Y	Y	· G	Y	7	
Primer set G													
	ε,	CCA	GAT	CAC	CMM	CAC	ccc	አአጥ	שמער	ъ. Ст	C	3,	
primer A205E s	5′												
primer A205E as	3′	CCT	CTA	CTC				TTA	AAG	TGA	С	5′	
		G	D	E	v	E ₂₀₅	A	N	F	T			
Primer set H													
primer Y282H s	5′	AAG	TAC	TAC	GGC	<u>C</u> AC	GGC	GCA	GGC	AAC		3′	
primer Y282H as	3′	TTC	ATG	ATG	CCG	<u>G</u> TG	CCG	CGT	CCG	TTG		5'	
		ĸ	Y	Y	G	H ₂₈₂	G	A	G	N			
Primer set I													
primer AvrII s	5′	GAT	ACG	GTA	GA <u>C</u>	CTA	<u>G</u> GG	TAC	CAG	TGC		3′	
primer AvrII as	3′	CTA	TGC	CAT	CTG	GAT	<u>CC</u> C	ATG	GTC	ACG		5′	
		D	T	v	D	L	G	Y	Q	С			
Primer set J													
primer S66D s	5′	CGG	TAC	CCA	ACC	GAT	TCG	AAG	AGC	AAA	AAG	3.1	
primer S66D as	3′	GCC	ATG	GGT	TGG	CTA	AG <u>C</u>	TTC	TCG	TTT	TTC	5′	
		R	Y	P	т	D ₆₆	s	ĸ	s	к	к		
Primer set K													
primer S140Y/D141	Gs	5′	GC	GCC	TCA	GGC	T <u>AC</u>	G <u>G</u> C	CGG	GTT	ATT	GC	3′
primer S140Y/D141	G as	3′	CG	CGG	AGT	CCG	ATG	C <u>C</u> G	GCC	CAA	TAA	CG	5′
				A	s	G	Y ₁₄	G ₁₄	1 R	v	I	A	

Figure 14a/3

Primer set L

primer	S130N	s	5 <i>'</i>	CTG	GCG	CGC	A <u>A</u> T	GTG	GTG	CCG	TTT	ATT	С	3′		
primer	S130N	as	3′	GAC	CGC	GCG	T <u>T</u> A	CAC	CAC	GGC	AAA	TAA	G	5′		
				L.	A	R	N ₁	30 V	v	P	F	I				
Prin	er se	t M														
primer	R129L	/S130N	s	5′	GCT	CTG	GCG	CTC	T <u>a</u> a	GTG	GTG	CCG	TTT	ATT	С	3
primer	R129L,	/S130N	as	3′	CGA	GAC	CGC	G <u>A</u> G	T <u>T</u> A	CAC	CAC	GGC	AAA	TAA	G	5
					A	L	A	L ₁₂₉	N ₁₃	o v	v	P	F	I		

 Primer set N

 primer K167G/R168Q s
 5'
 GAC CAT GGC TCC GGA CAA GCT ACG CCA G
 3

 primer K167G/R168Q as
 3'
 CTG GTA CCG AGG CCT GTT CGA TGC GGT C
 5

 D
 H
 G
 S
 G167 Q168 A
 T
 P

igure 14b

CC ATG GTC ACG AGG GGA CGC TGA AGA GTA GAT ACC CCG CCT ATG AGC GGT AAG AAA AGC GAG CT - 5' Fund27-s 5'- CTA GGG TAC CAG TGC TCC CCT GCG ACT TCT CAT CTA TGG GGC GGA TAC TCG CCA TTC TTT TCG C - 3' FumG27-as 3'-Primer set 0 Primer set P

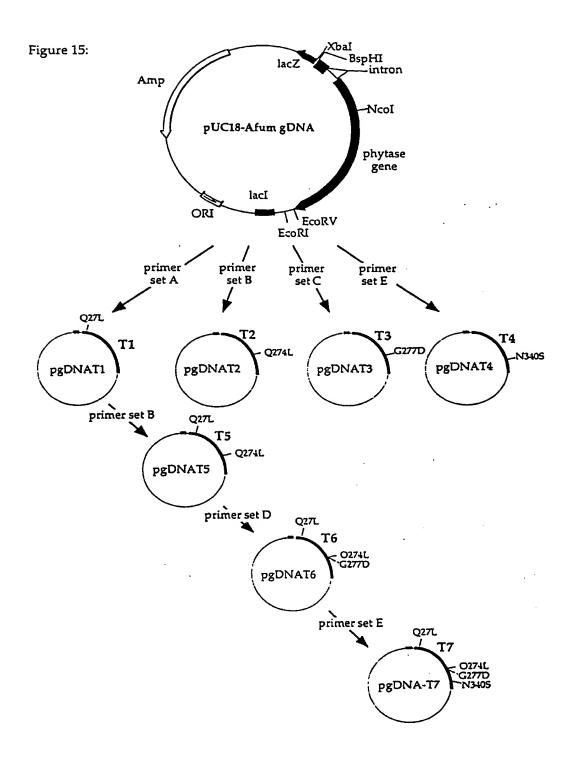
		'n	
	÷	r E	
	1	GAG (
	TCG C -	AGC G	
	TTT T	AAA A	
	TTC T	AAG A	
	_	GGT A	
	g cc.		
	o TCG	3 AGC	
	TAC	ATG	
	MC	110	
	ည္သ	ည	
	766	ACC	
	CTA	GAT	
	CAT	GTA	
	Ţ	AGA	
	ACT	TGA	
	929	ည္ဟ	
	Į.	A56	
	ည္ရ) V	
	7GC 7	ACG 7	
	CAG 1	GTC A	
	TAC C	ATG G	
	GGG T	SC	
	CTA G	Ū	
	_	1	
,	'n	3,	
2	83	80-	
7 300	5 5	.umN27-as 3'-	
į	Fu	Fun	

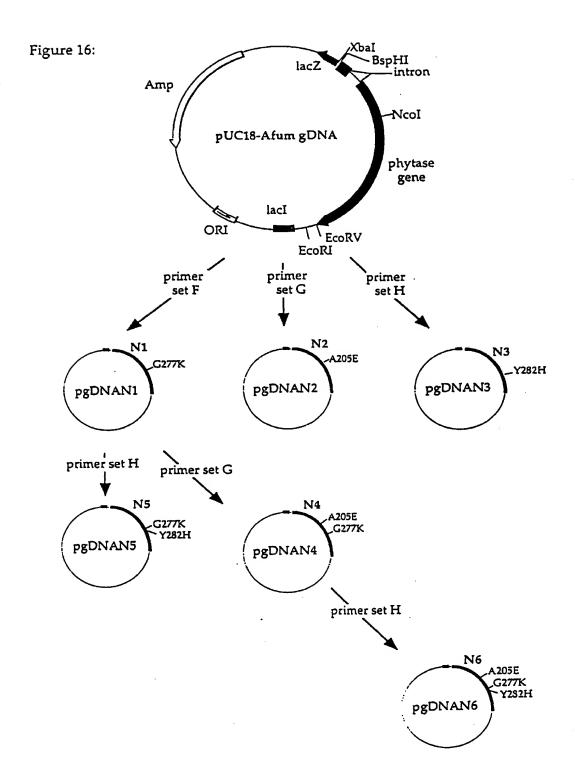
	ý
	l Er
٦	ğ
ပ g	g g
ı T	A AG
TT	*
ĮĮ.	¥¥
S	GGT
TCG	AGC
TAC	ATG
ATC	TAG
၁၉	၅၁၁
166	ACC
CT.	GAT
CAT	ST.
īĊī	AGA
ACT	TGA
929	CC ATG GTC ACG AGG GGA CGC TGA AGA GTA GAT ACC CCG TAG ATG AGC GGT AAG AAA AGC GAG CT - 5'
CCT	GGA
JCC	AGG
<u> 1</u> gc	ACG
CAG	GTC
TAC	ATG
999	႘
CTA	
5'- CTA GGG TAC CAG TGC TCC CCT GCG ACT TCT CAT CTA TGG GGC ATC TAC TCG CCA TTC TTT TCG C - 3'	3,-
ß	.umI27-as 3'-
FumI27-s	m127.
Fu	Fu

		5,
	ë,	r S
	ı U	GAG
	TTT TCG C - 3'	AGC
	TII	AAA
	TTC	AAG
	S	GGT
	T CG	ATG AGC
	TAC	ATG
	S	8
	ည္ဟ	ည္ပ
	736	ACC
	ST.	GAT
	CAT	GTA
	TĈĪ	CGC TGA AGA
	ACT	TGA
	වුටු	၁၅၁
	CCT	AGG GGA
	ည်	AGG
	730	GTC ACG
	CAG	GTC
	TAC	ATG
	9	ပ္ပ
	GT.	
80	5'-	3,-
86t	gn	8
Primer set	FumA27-s	FumA27-as 3
		. •

	TYC TYT TCG C - 3'	AAG AAA AGC GAG CT - 5'
	SC	GGT
	7CG	AGC
	TAC	ATG
	ACG	1 00
	၁၅၅	ည
	TGG	ACC
	CT.	GAT
	CAT	GTA
	TCT	AGA
	ACT	TGA
	වු	ည္ပ
	CCT	€G
	ည့	AGG
	T GC	ACG
	CAG	GTC
	TAC	ATG
	999	႘
	g B	
E	2.1	3,-
Bet		Ø
Primer set T	FunT27-s 5.	FumT27-as 3'-

Primer set





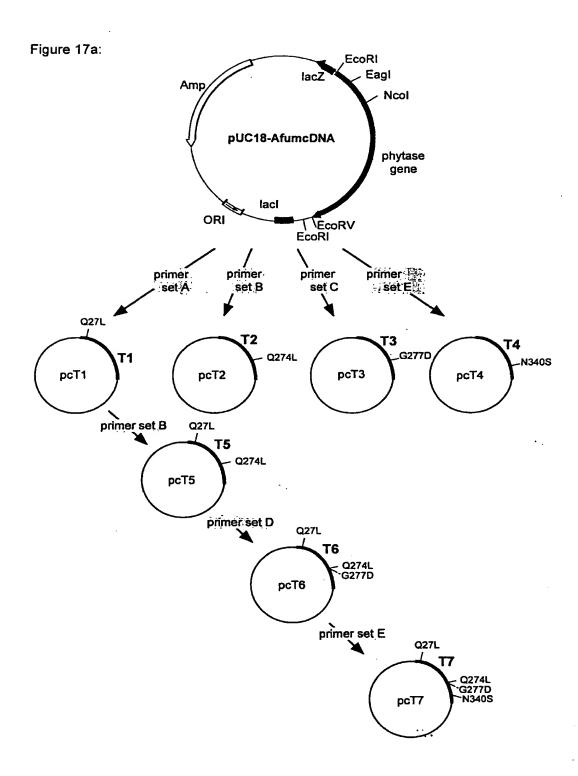
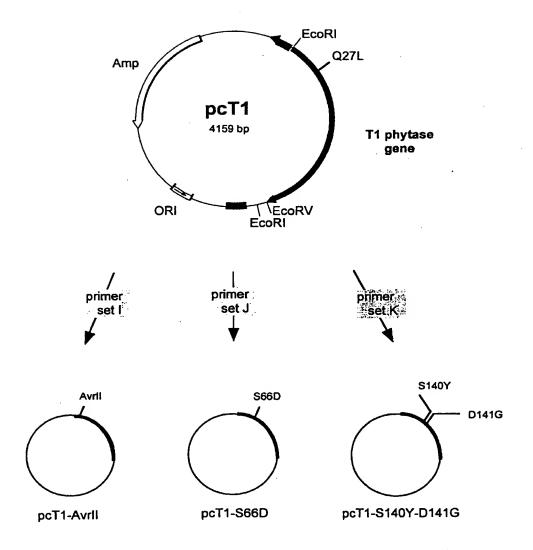
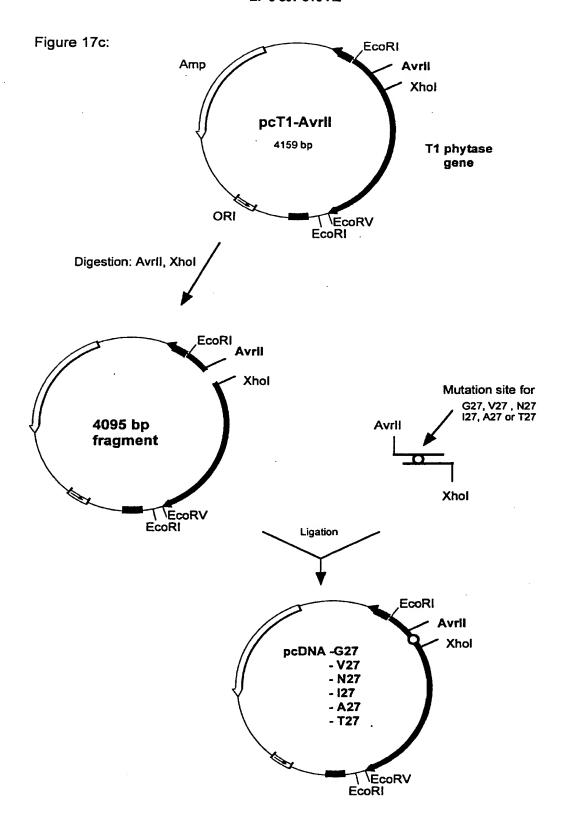


Figure 17b:





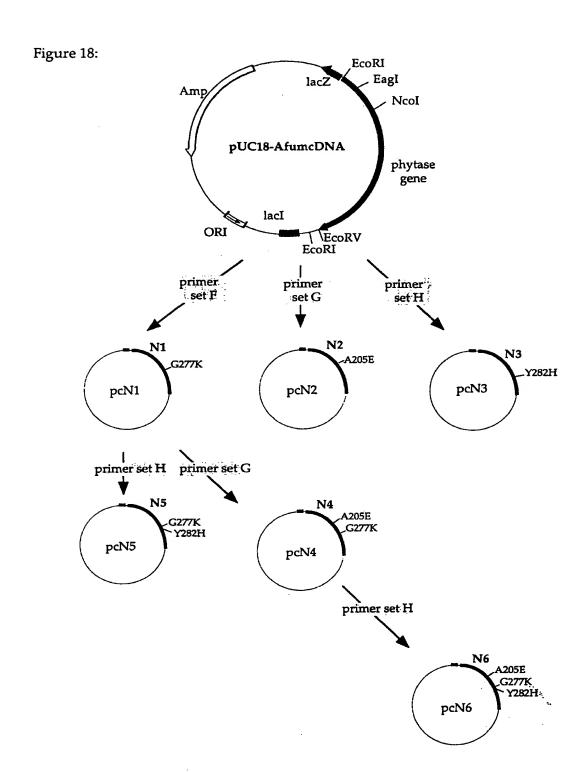
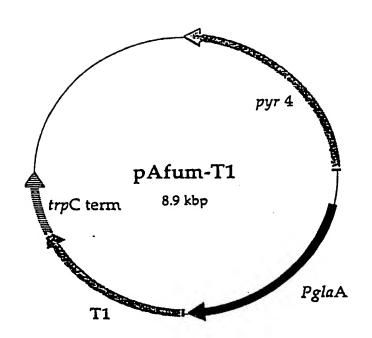
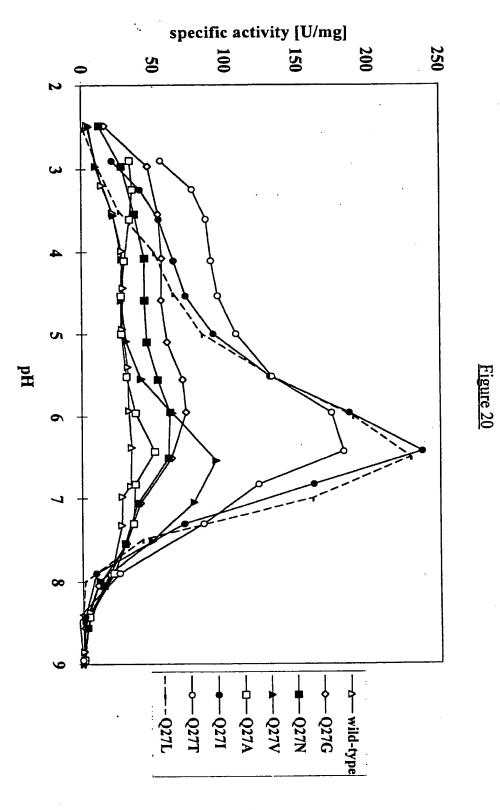
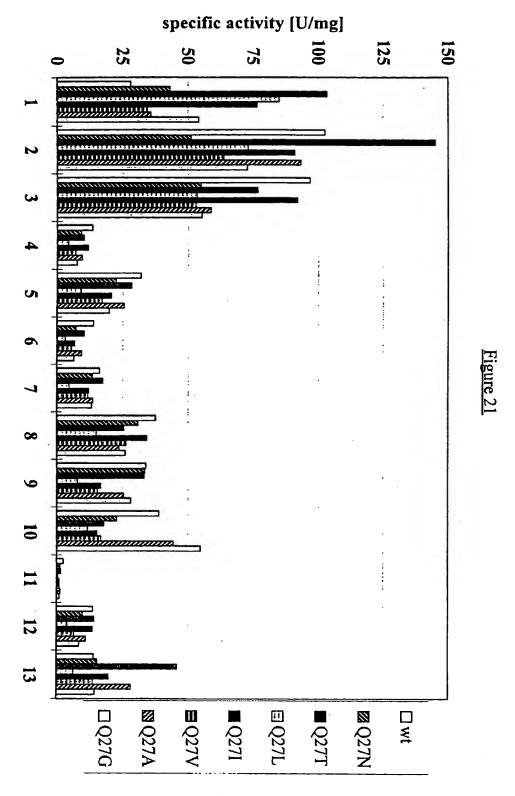


Figure 19:



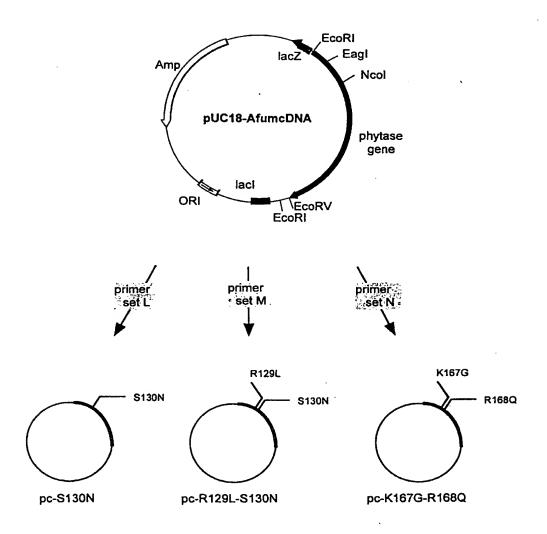


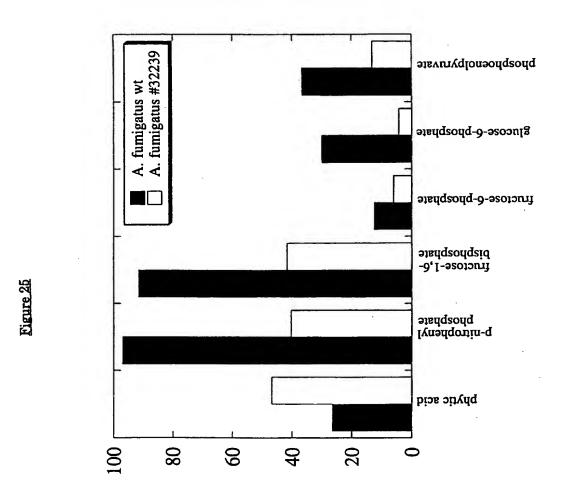
SA 010 768 0 93



EP 0 897 010 A2

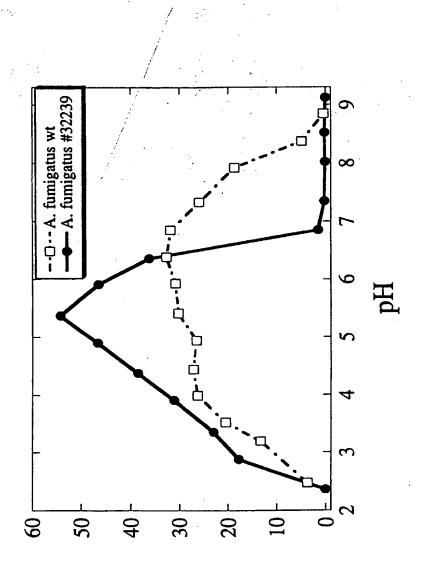
Figure 26:





specific activity [U/mg]





specific activity [U/mg]

400 #13073 GFTHELIARL TRSPVQDETS THSTLVSHPA TFPLHATHYV DFSHDNSHVS IFFALGLYNG TRPLSRTSVE SAKELDGYSA SWVVPFGARA YFETMQCKSE KEPLVRALIN DRVVPLEGCD VDKLGRCKLN DFVKGLSMAR SGGNWGBCFS #58128 #32722 321 #26906 432239 #13073 #32722 \$58128 126906 #3 22 39

Fig. 23/2

113

240 #13073 NVTLTFLLBA AYLLSGRVSA APSS----A GSKSCDTVDL GYÇCSPATSH LWGQYSPFFS LEDELSVSSK LPKDCRITLV #13073 FIRASGEBRY IASGEKFIEG FOGAKIADPG ATHRAPAIS VIIPESETFN WTLDHGVCTK FEASQLGDEV AANFTALPAP QVLSRHGARY PTSSKSKKYK KLVTAIQANA TDFKGKFAFL KTYNYTLGAD DLTPFGRQQL VNSGIKFYQR YKALARSVVP #13073 DIRARARKU PGVTLTDEDV VSLMDMCSFD TVARTSDASQ LSPPCQLFTH NEWKKYNYLQ SLGKYYGYGA #32239 A...I.... ...Q...D..A...EAI...GCBAGB #32239 .GA. V M. AG 161 241 113073 132239 132722 **\$58128 82**6906 #58128 #58128 #26906 #32722 126906 **#26906** #32722 #32239 #58128 132722

Fig. 23/1



